

# Support Vector Machines

## EECE 580B

Lecture 12

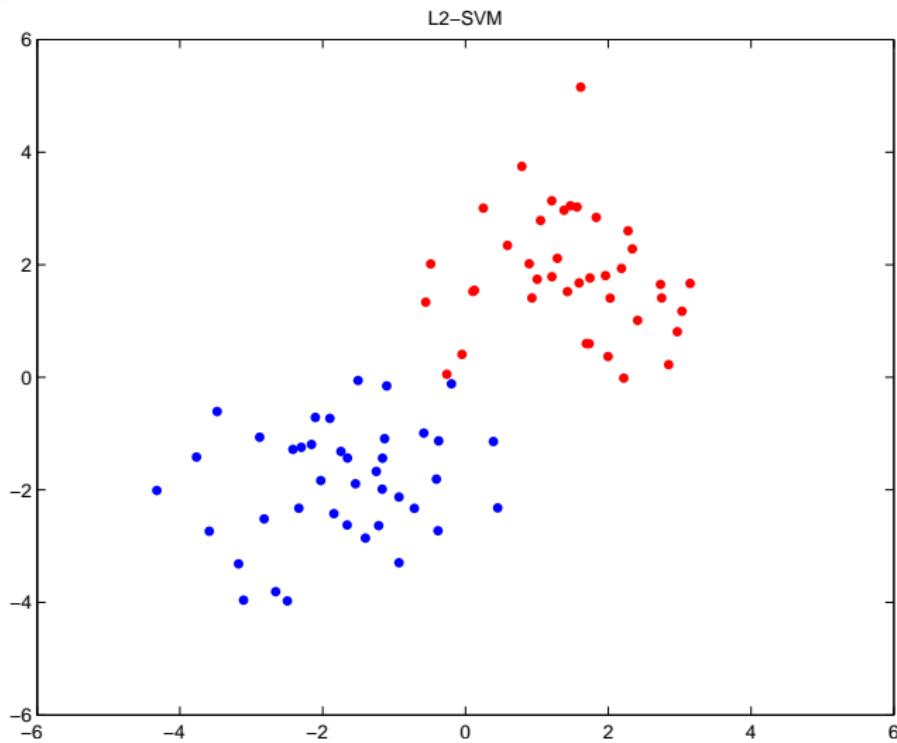
March 9, 2010

Jan Kodovský, Jessica Fridrich

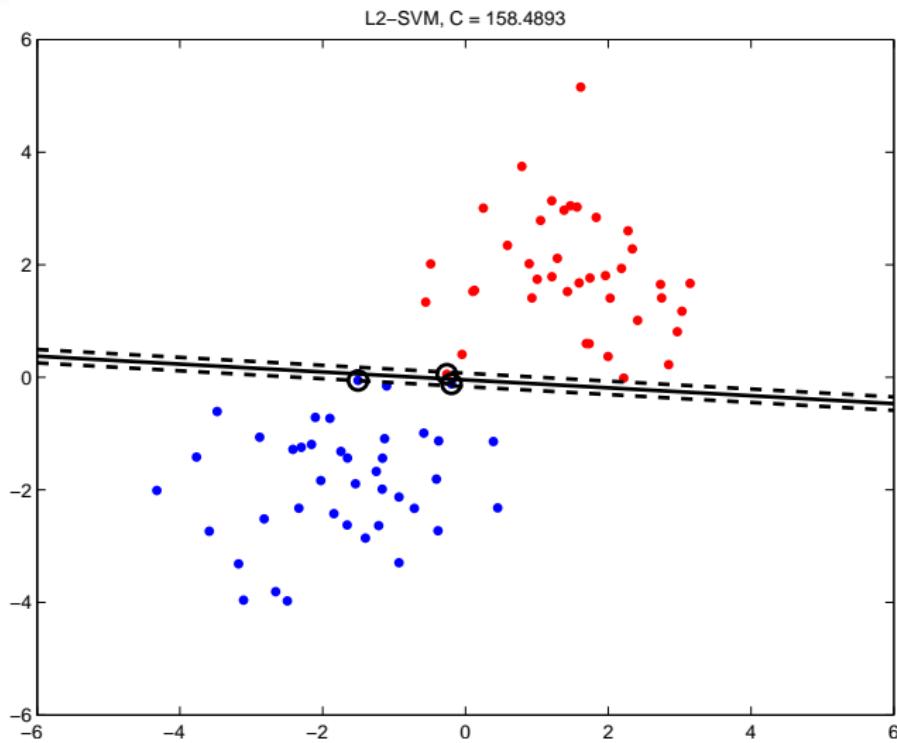


*State University of New York*

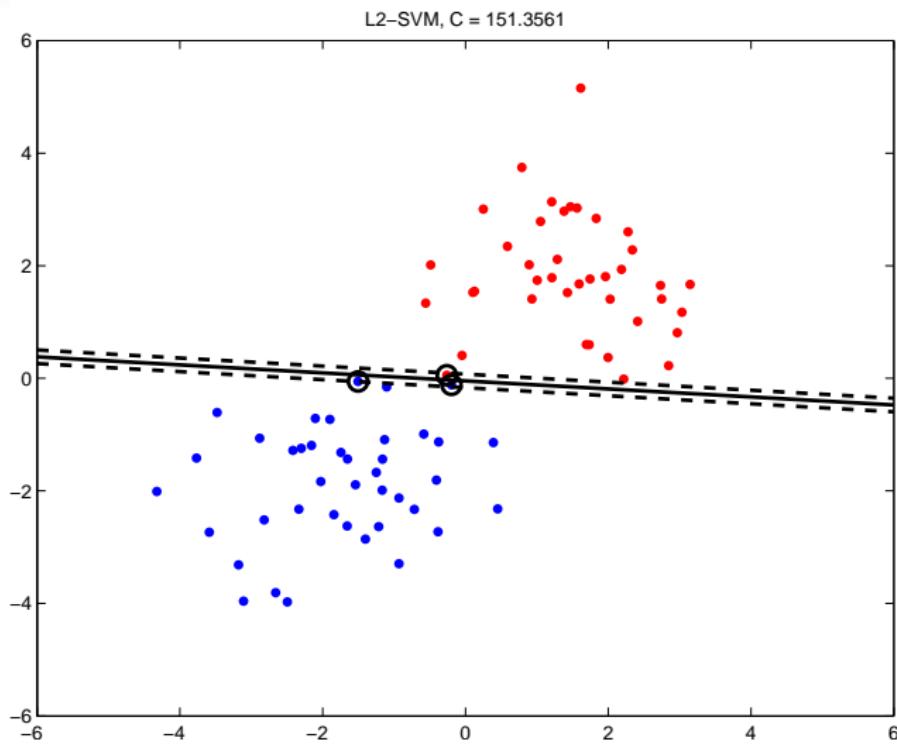
# L2-SVM Example



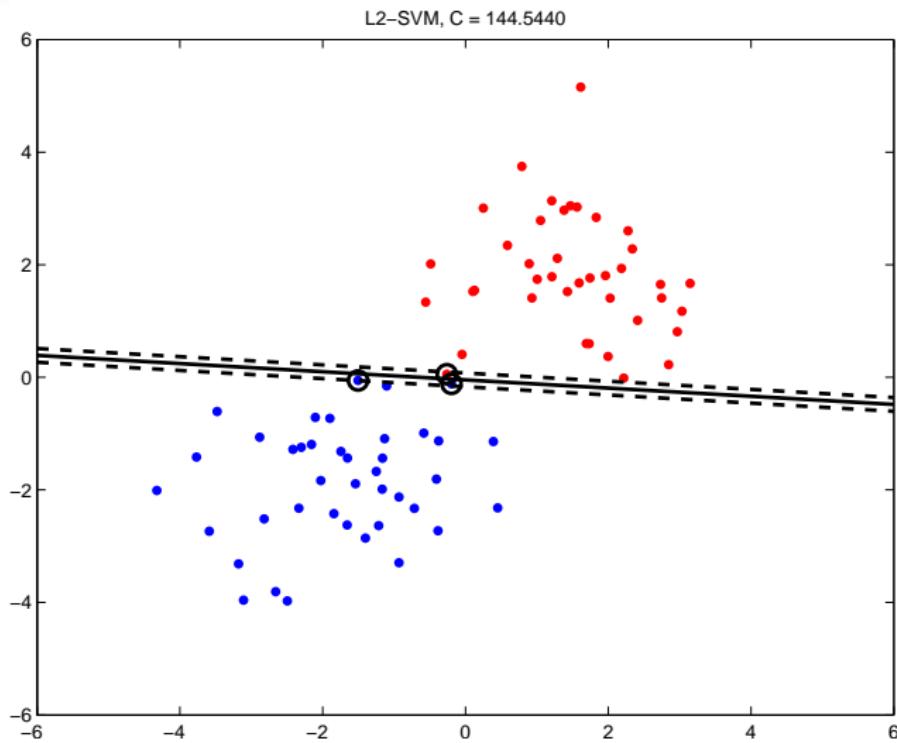
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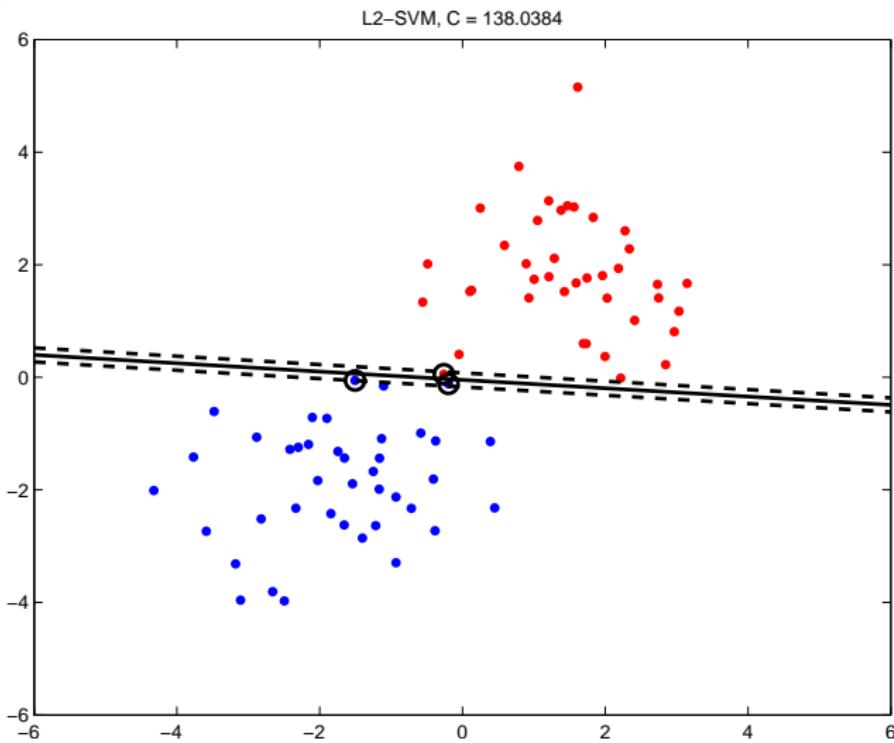
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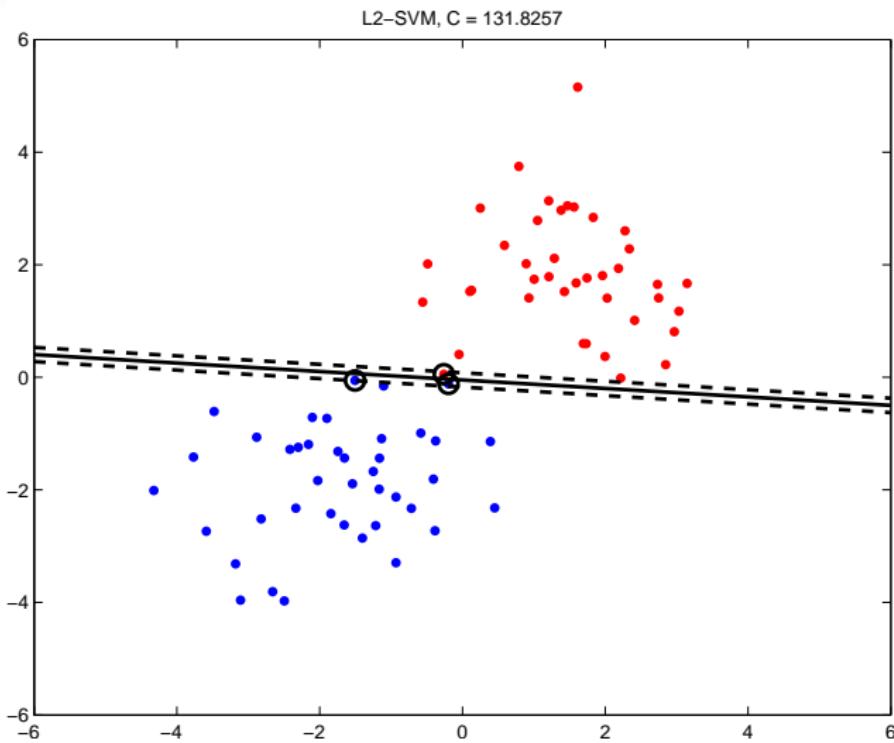
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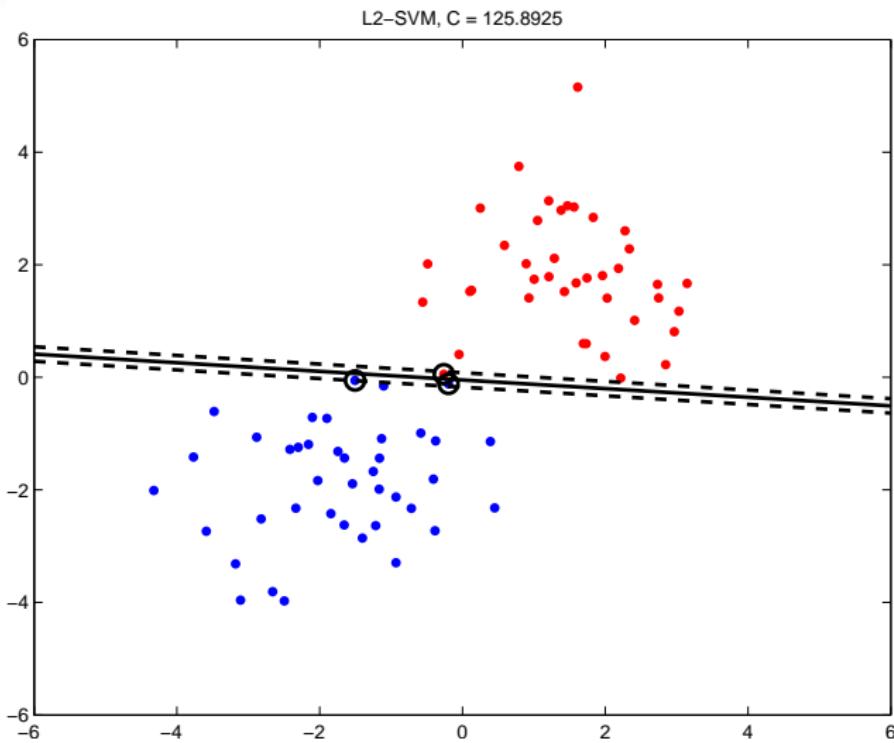
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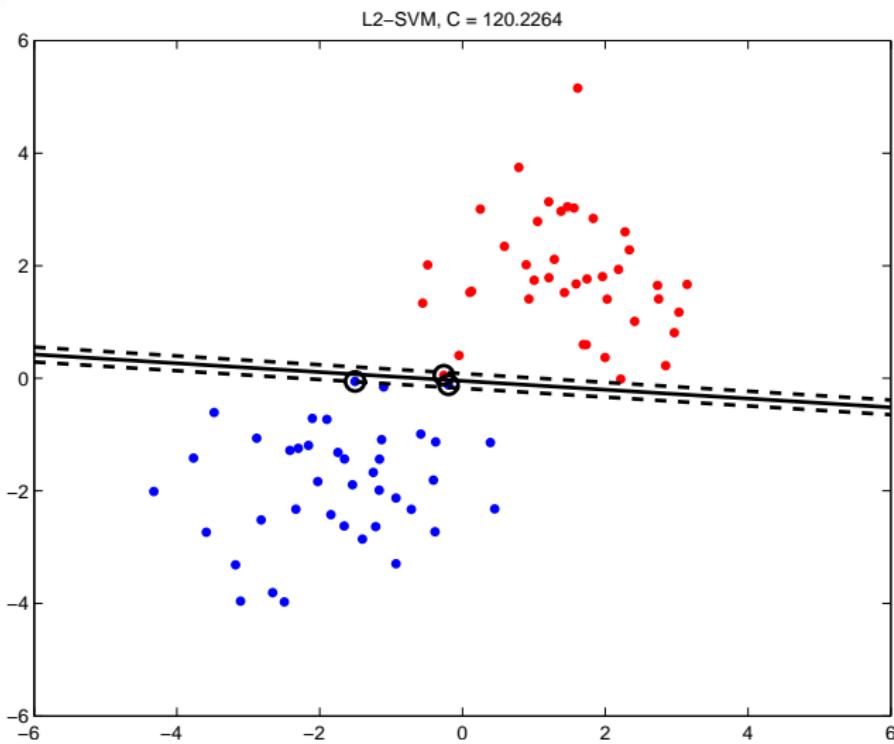
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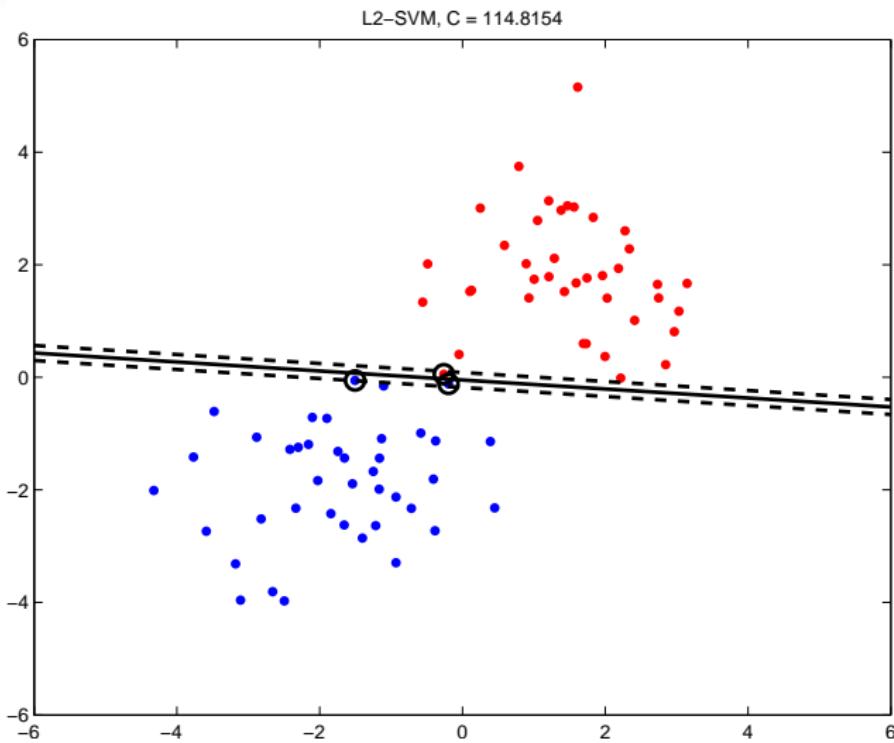
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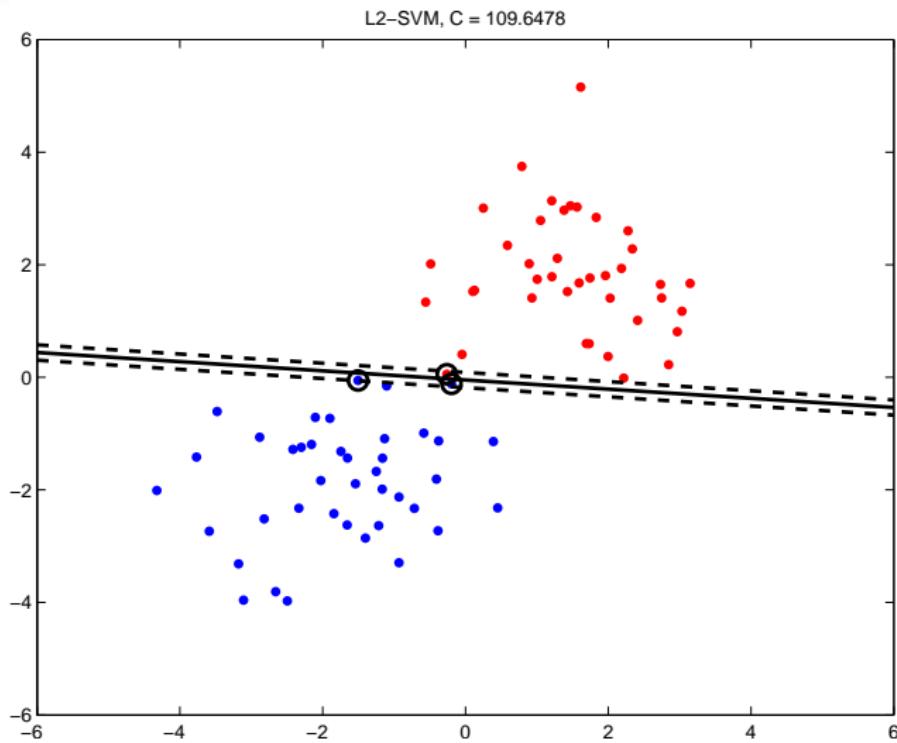
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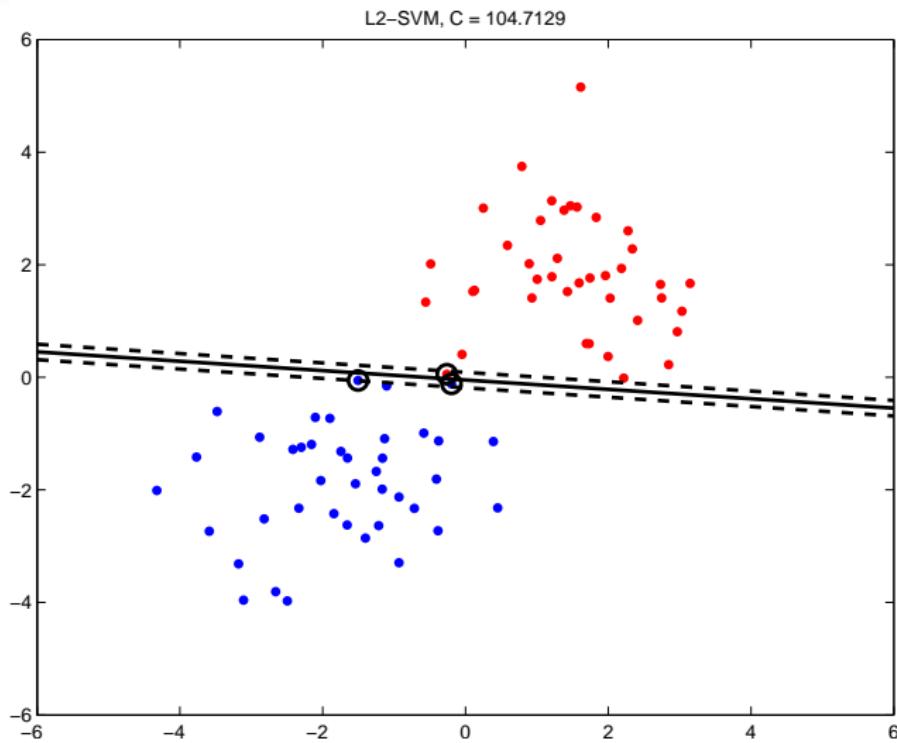
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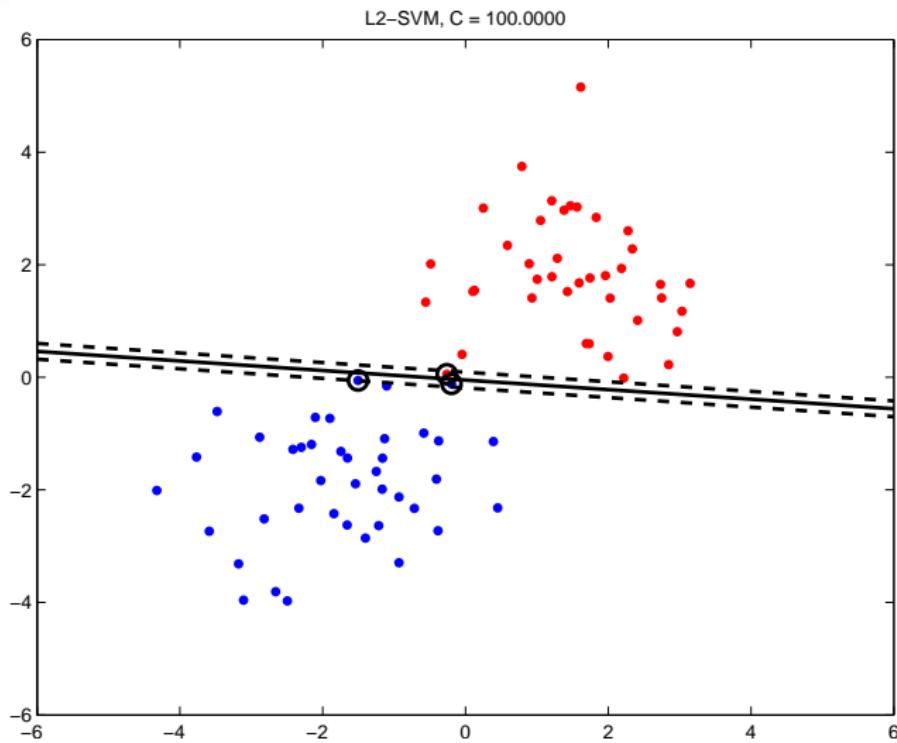
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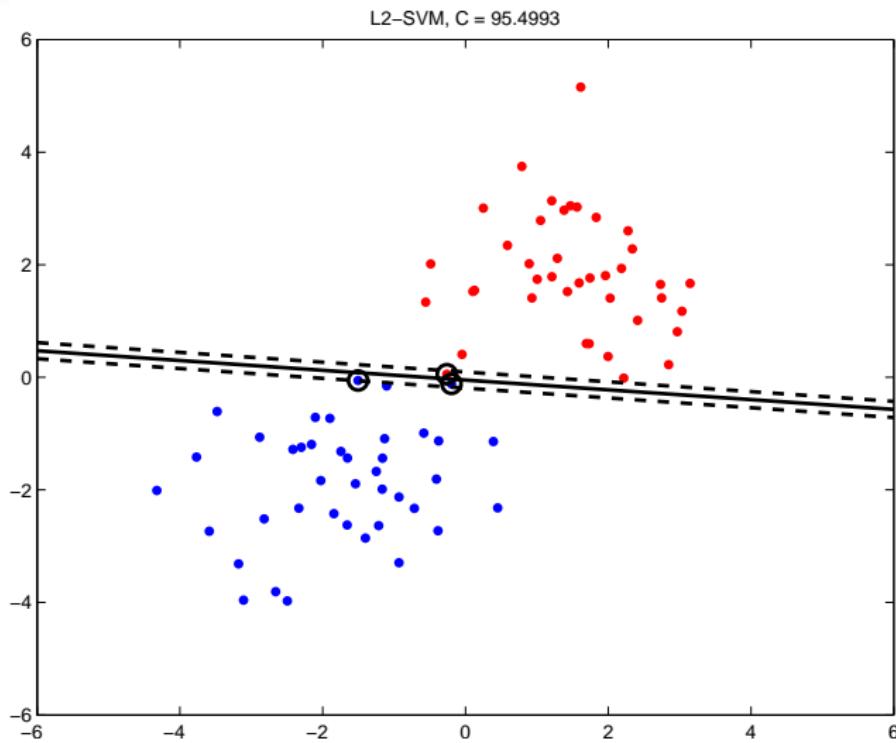
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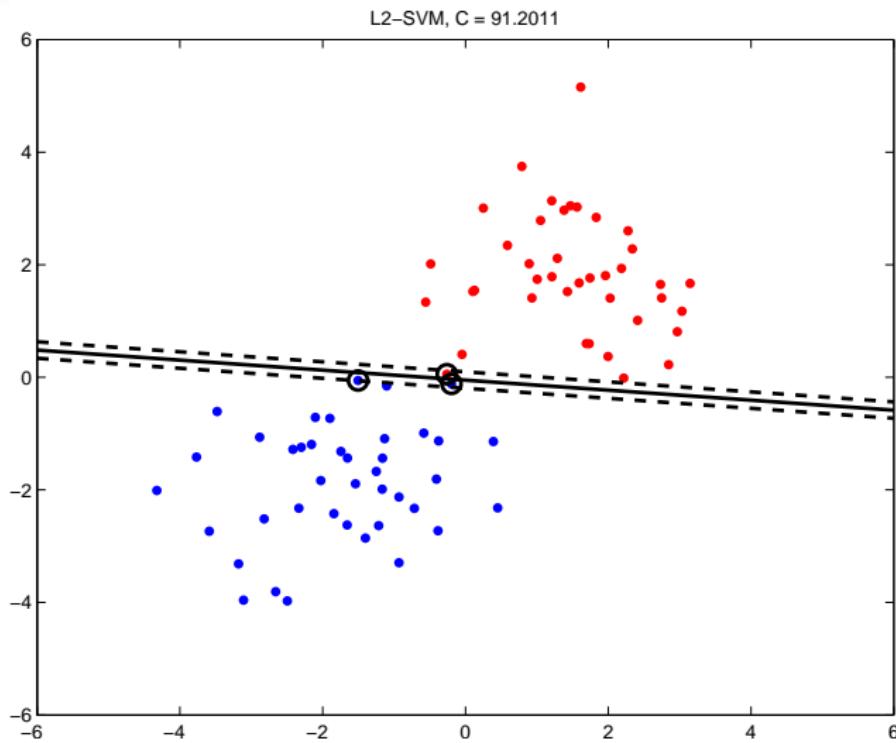
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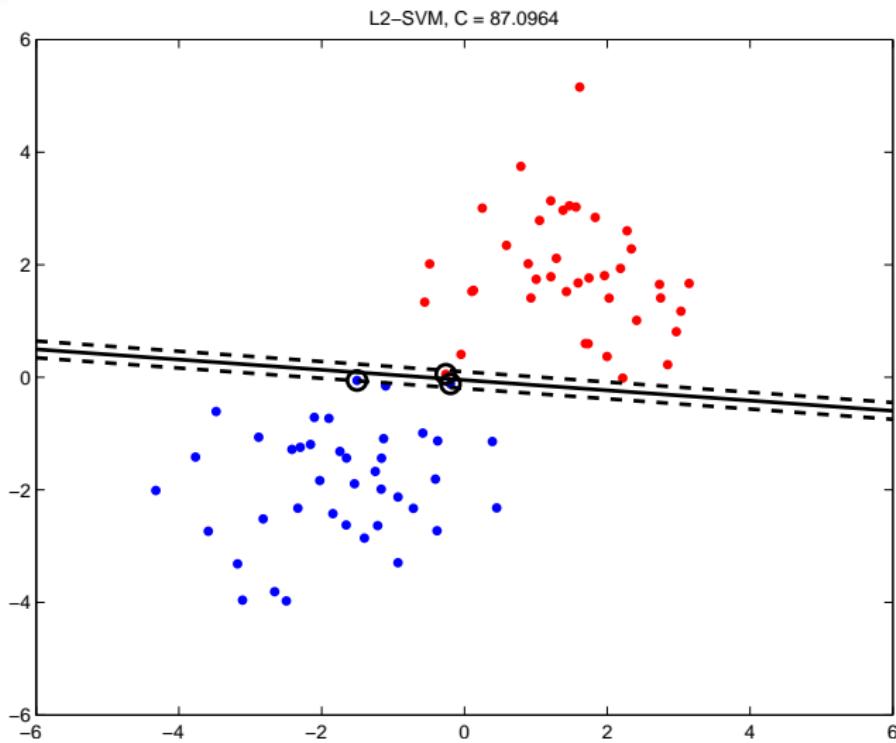
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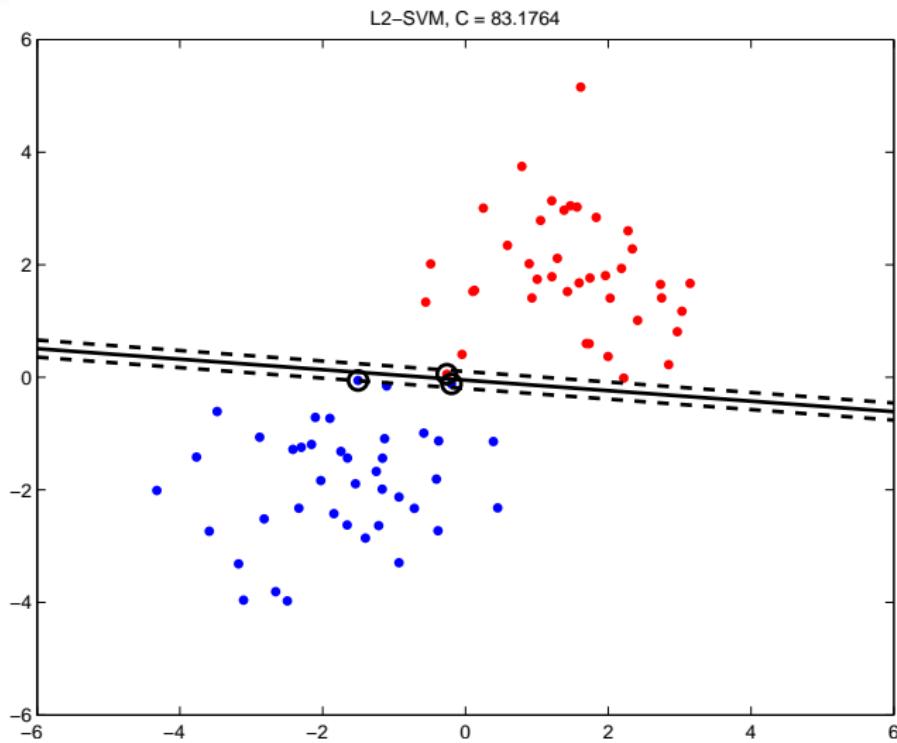
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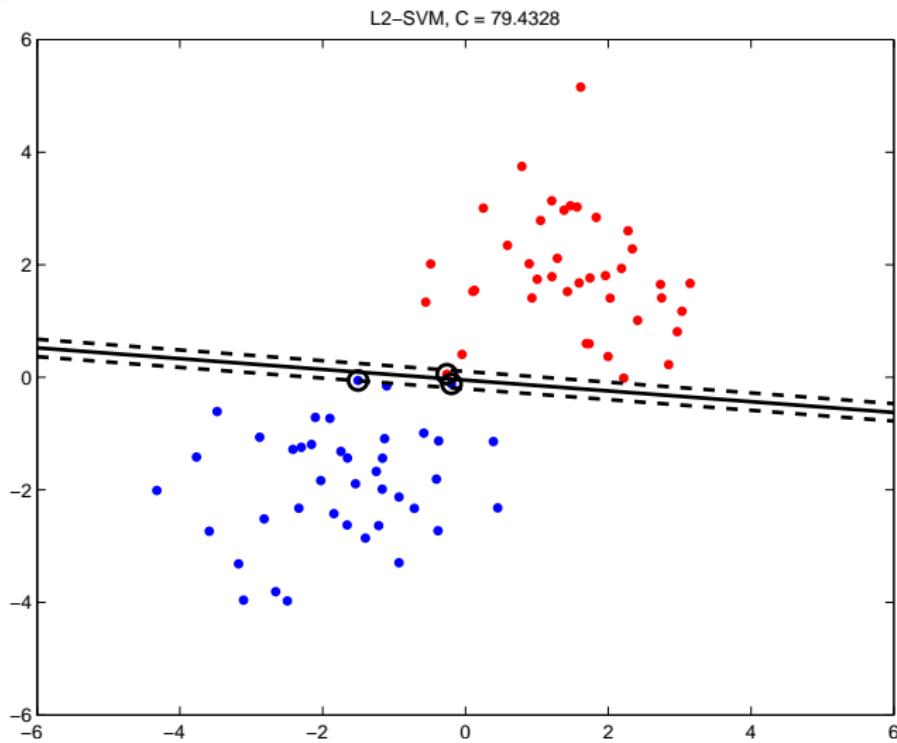
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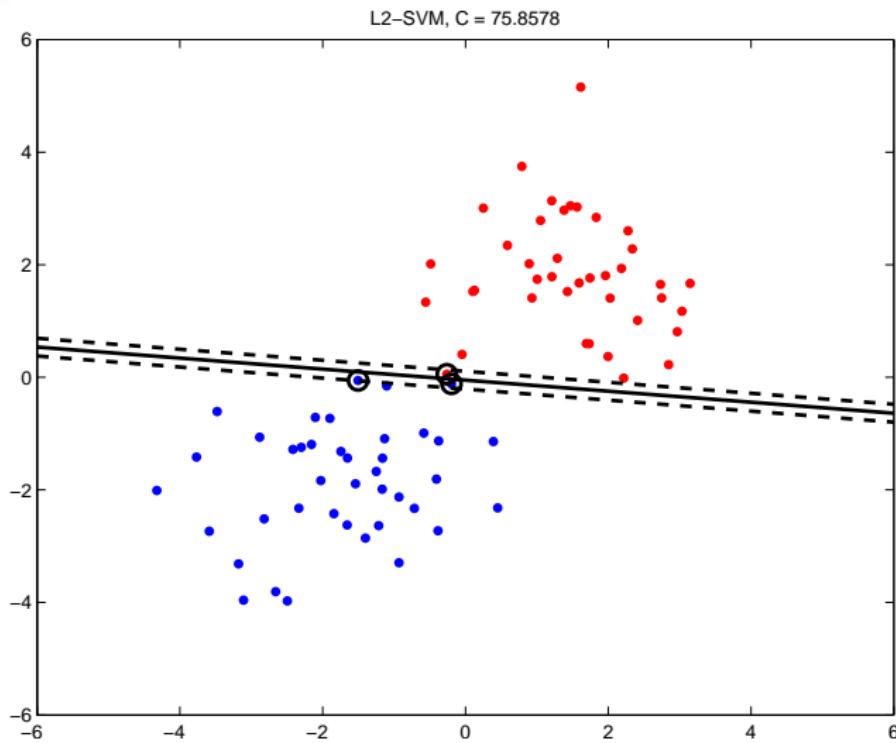
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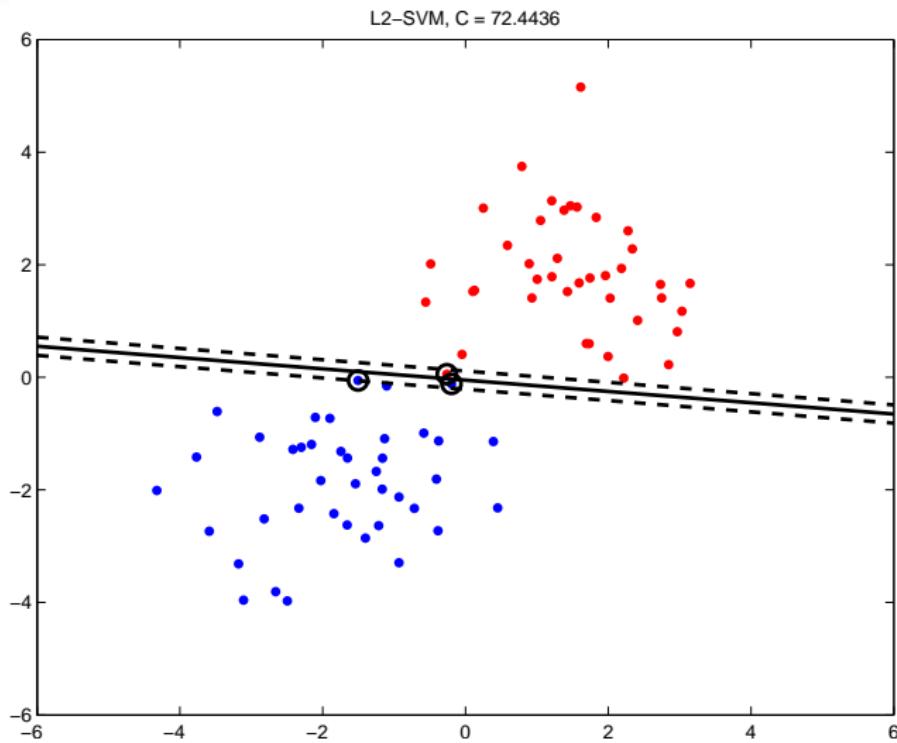
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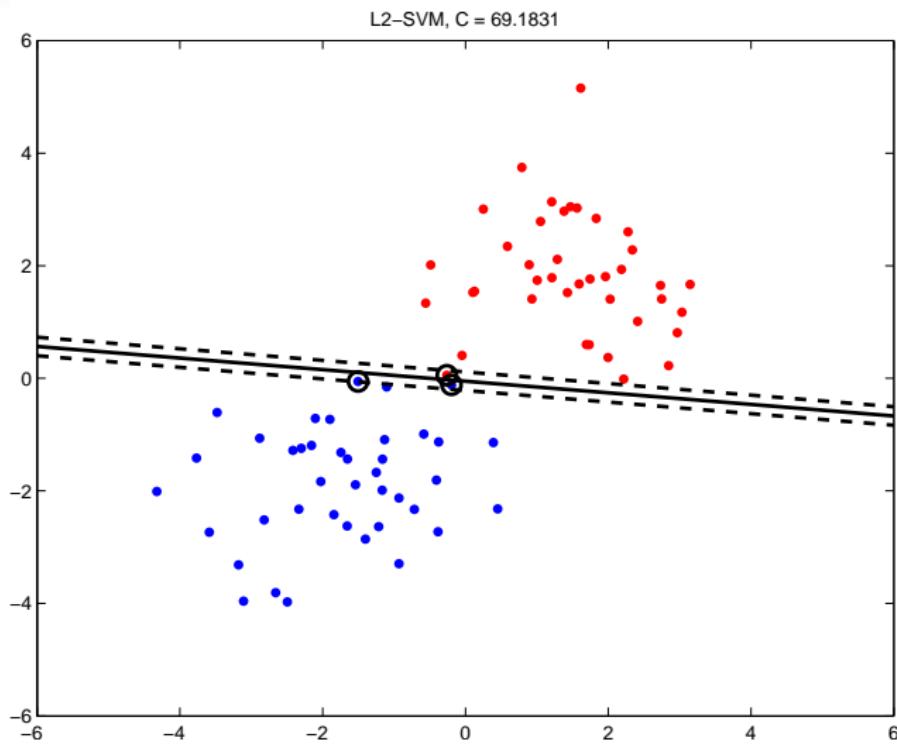
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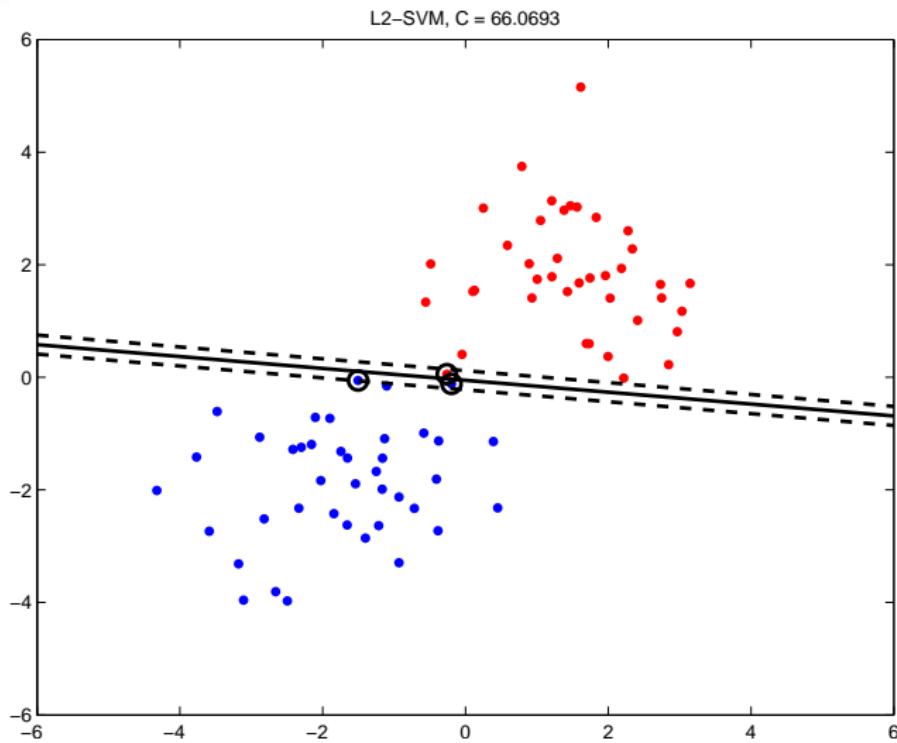
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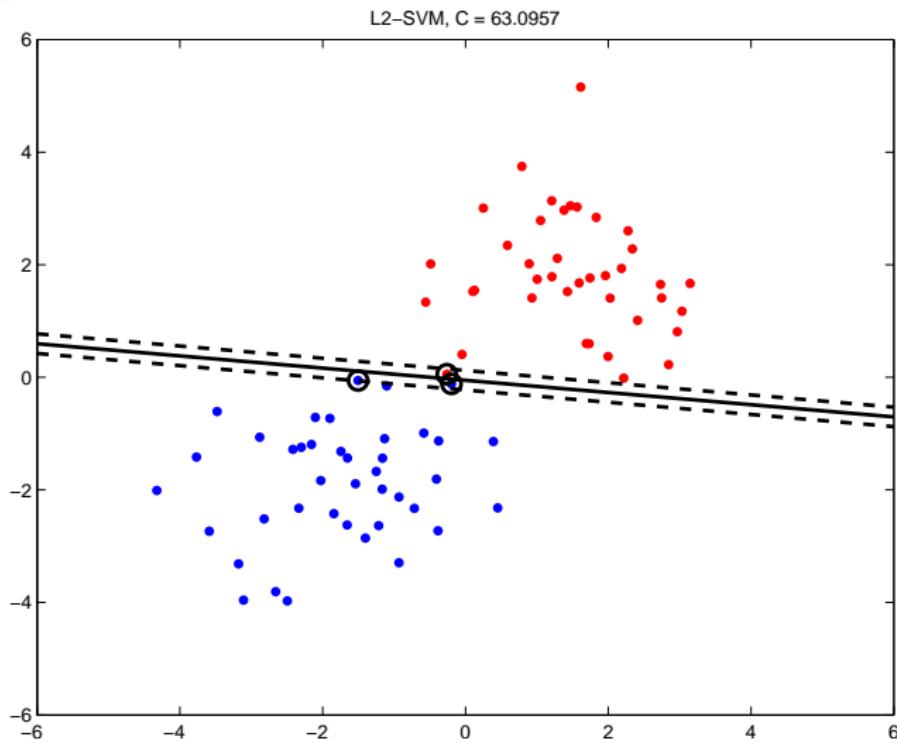
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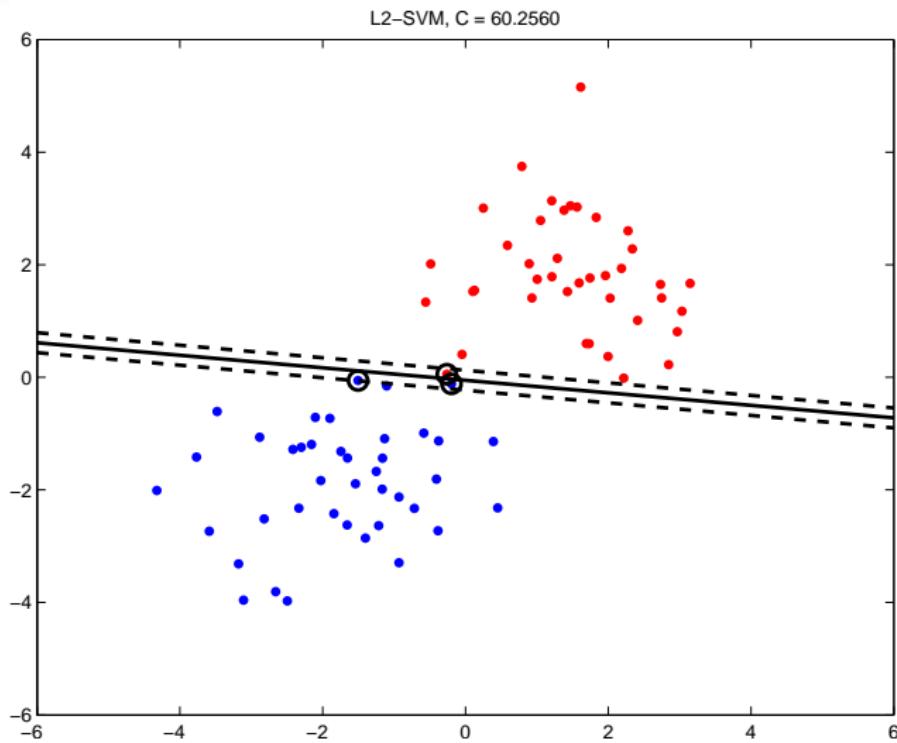
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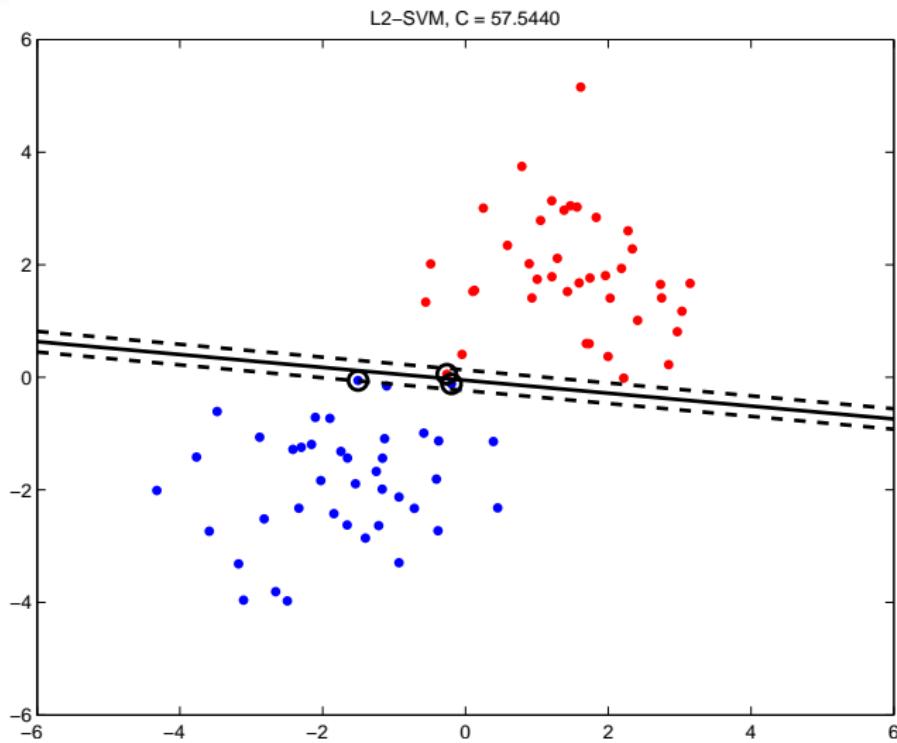
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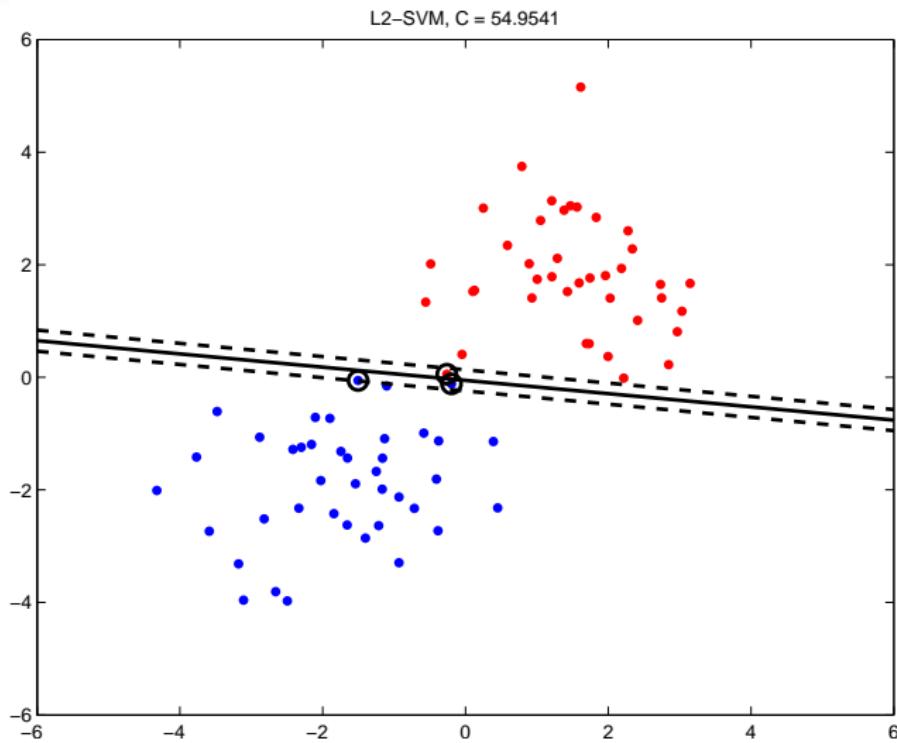
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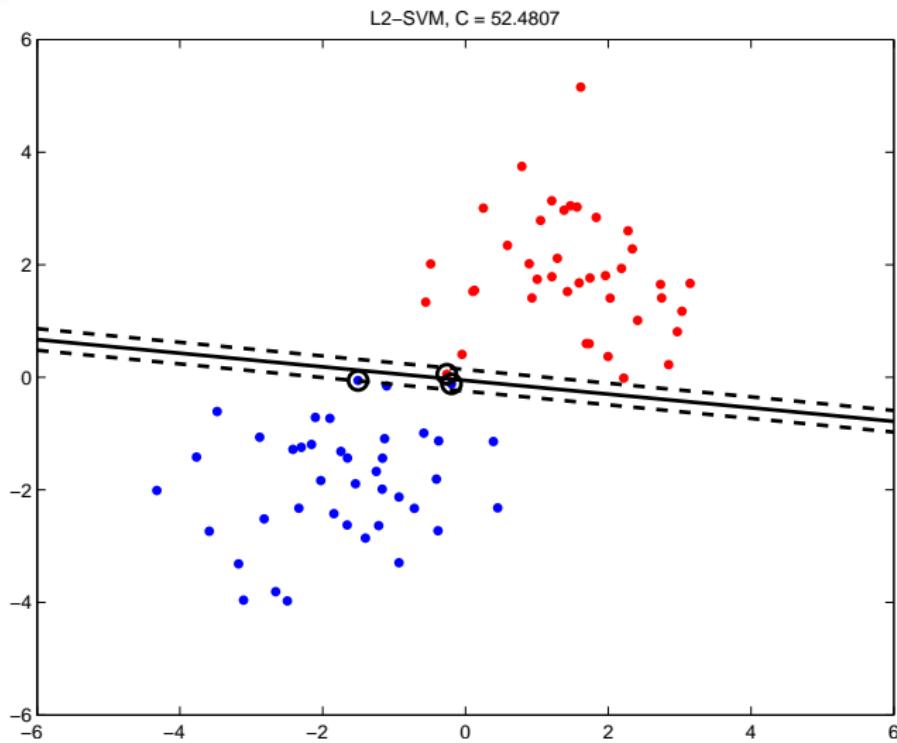
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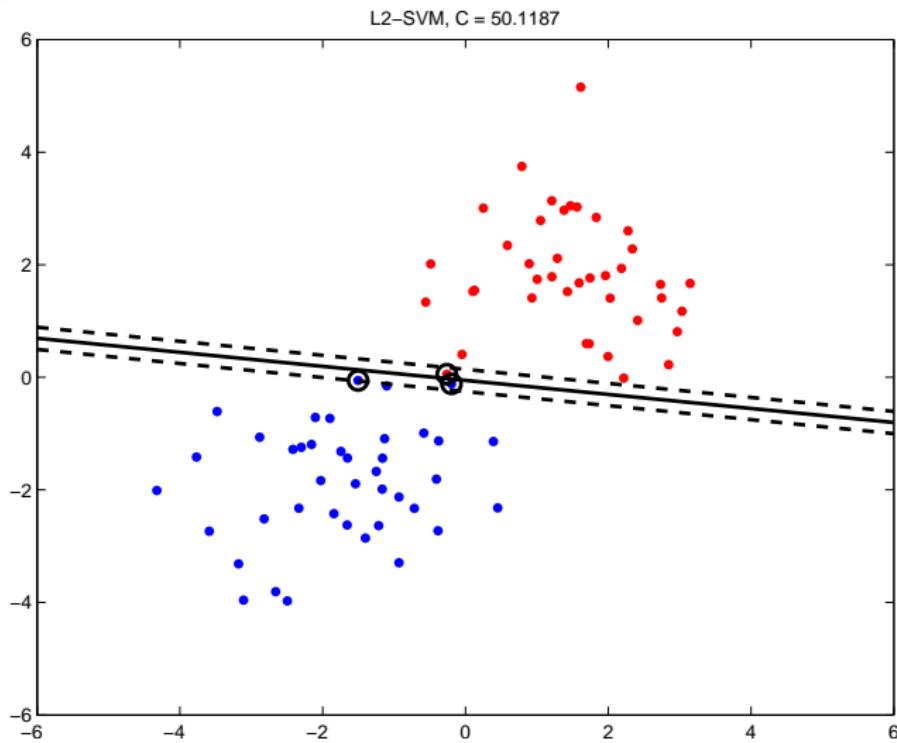
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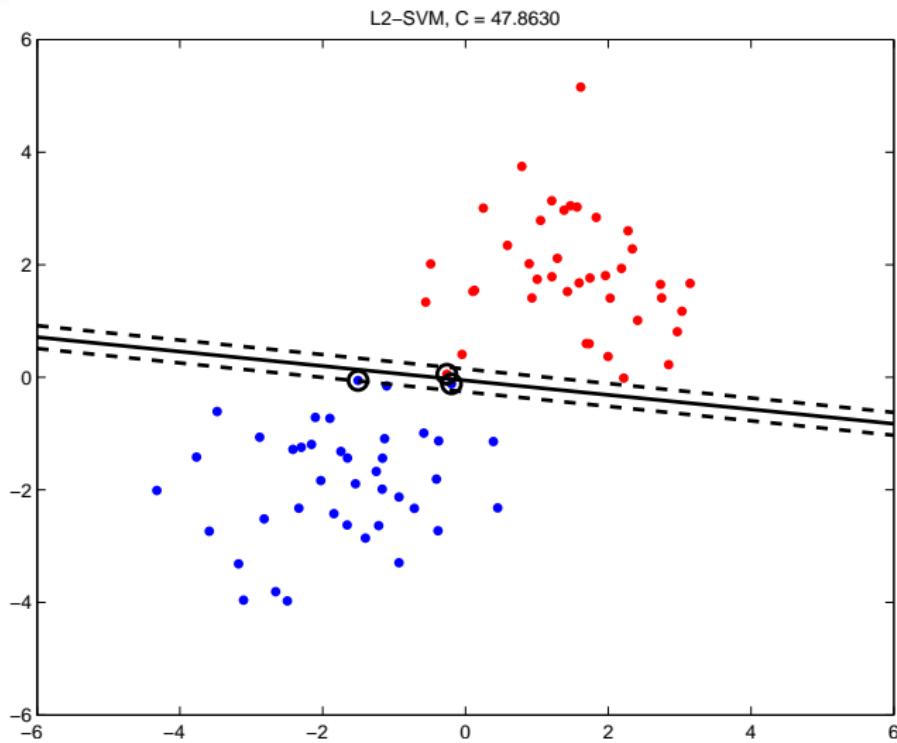
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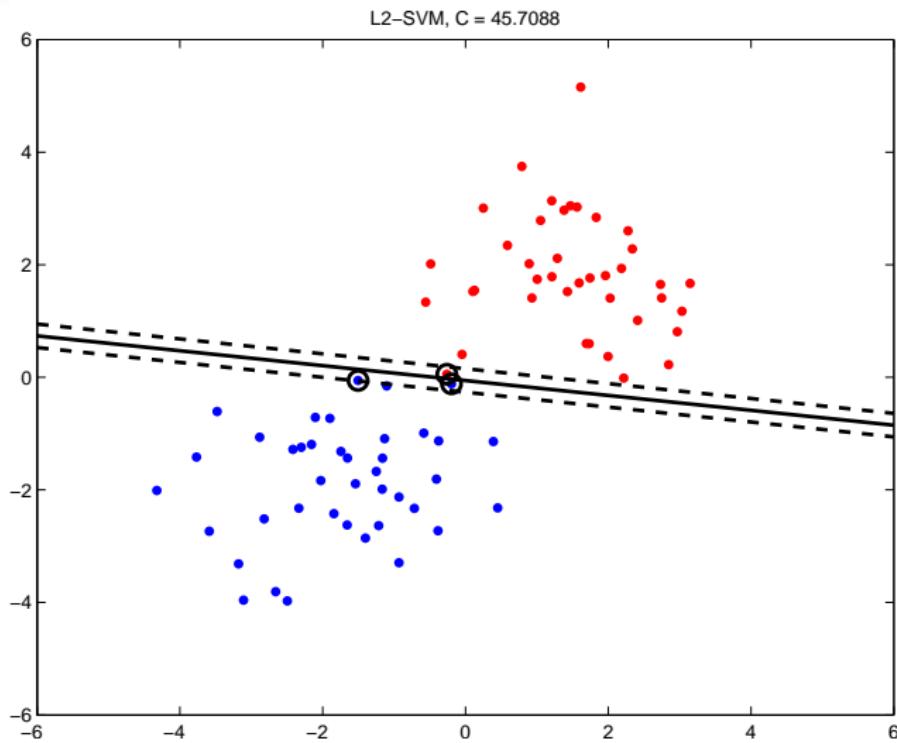
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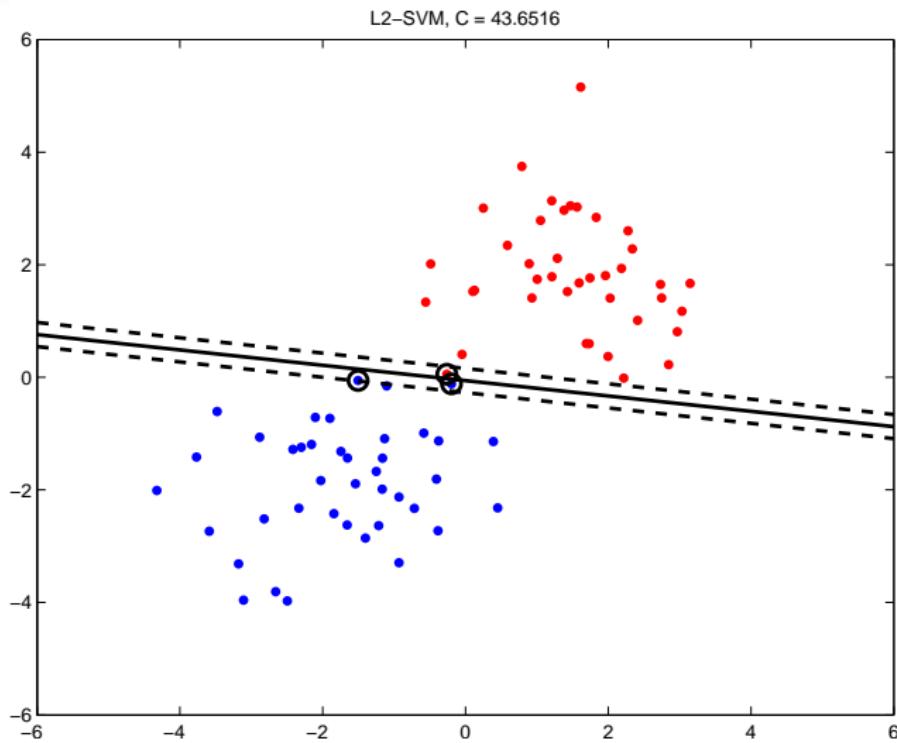
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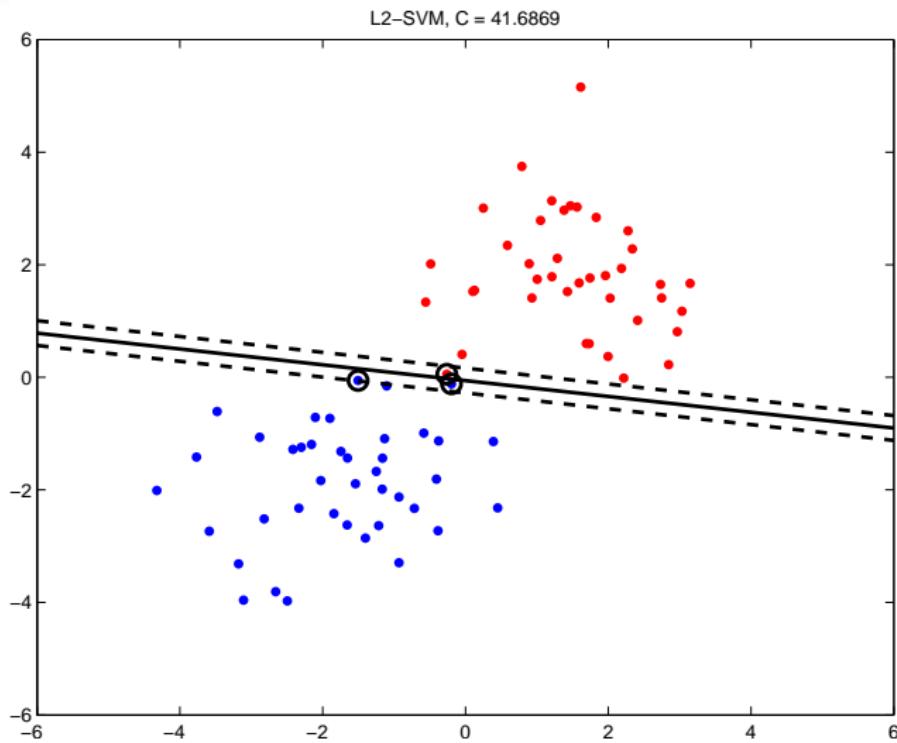
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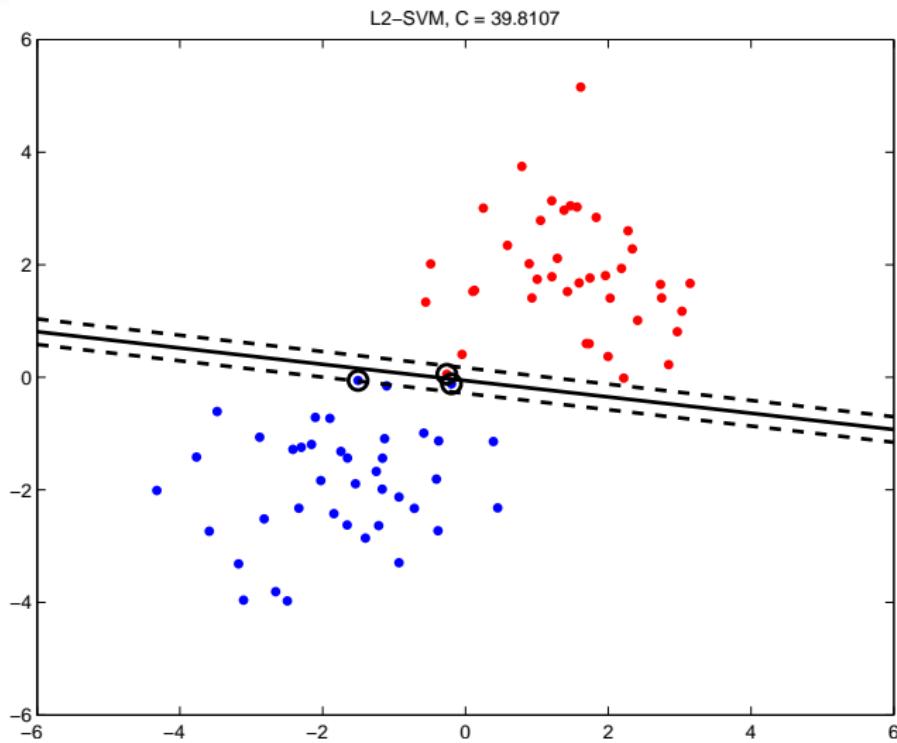
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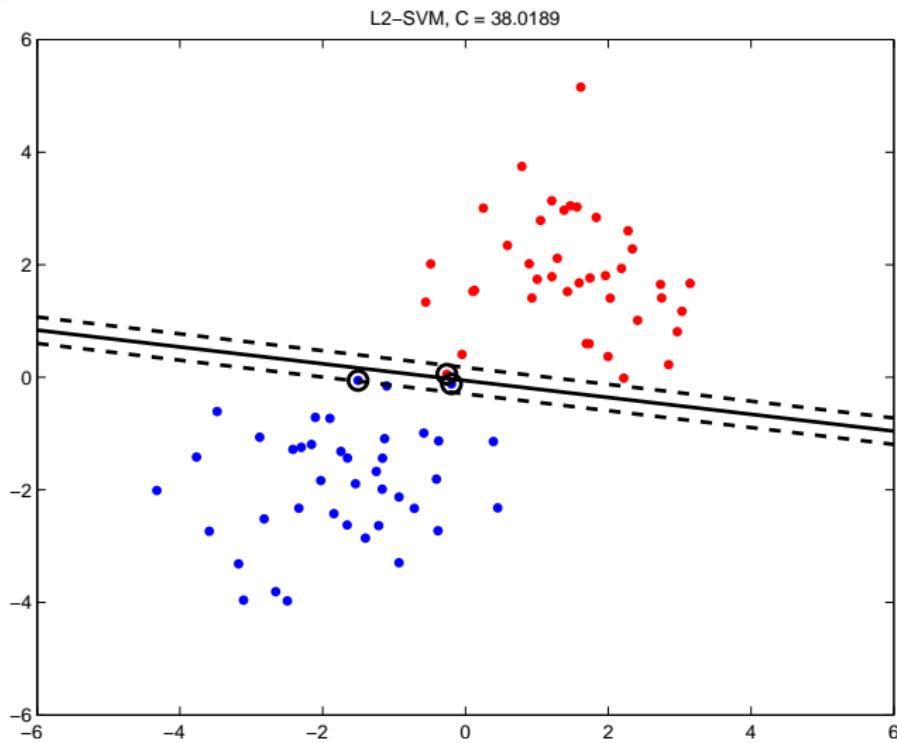
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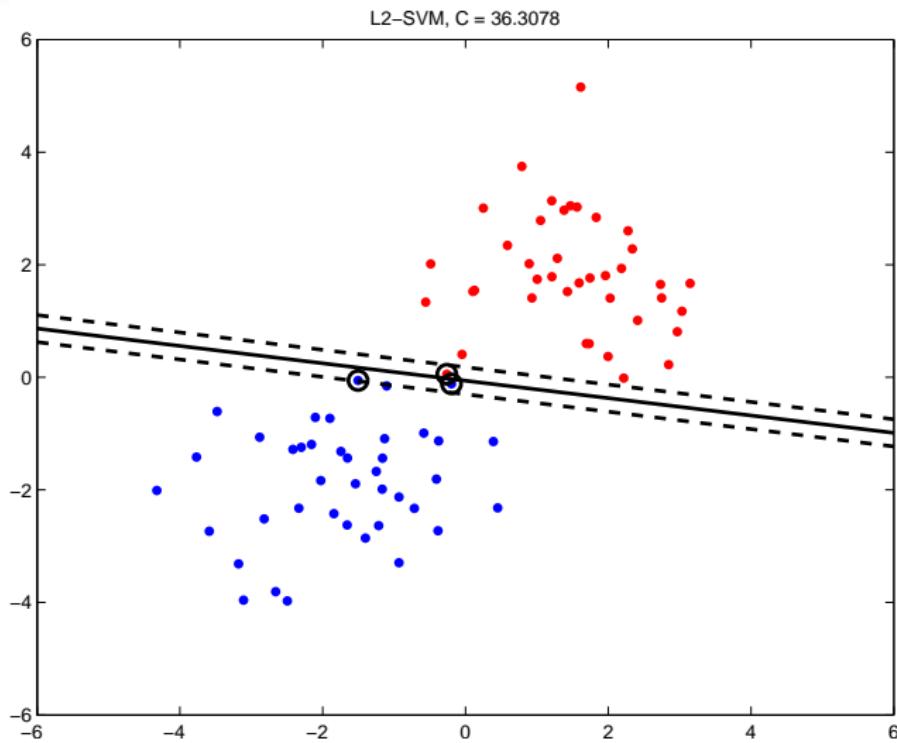
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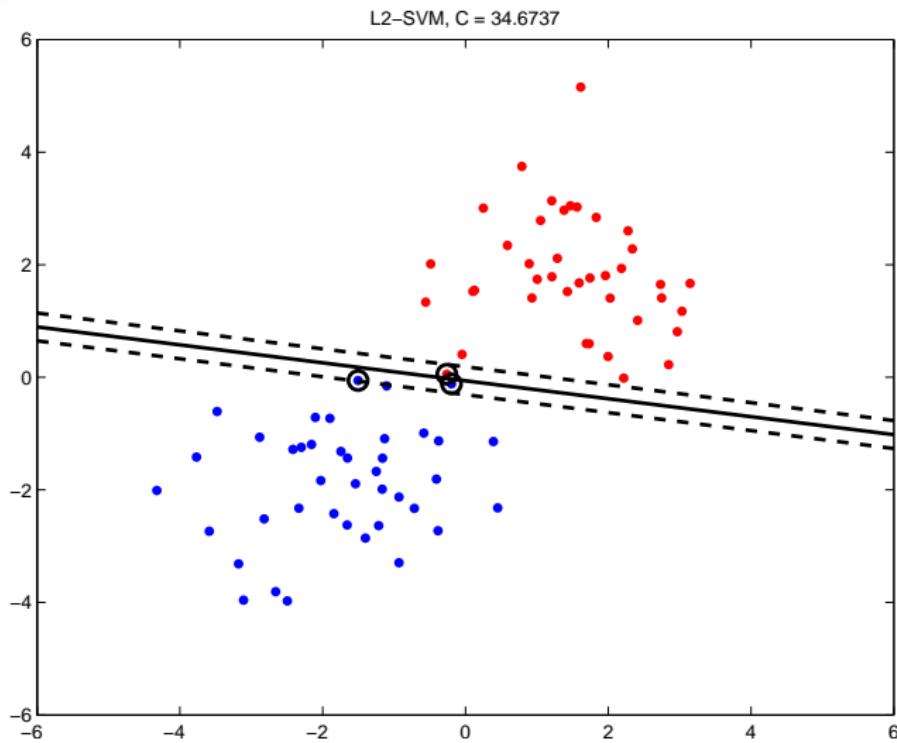
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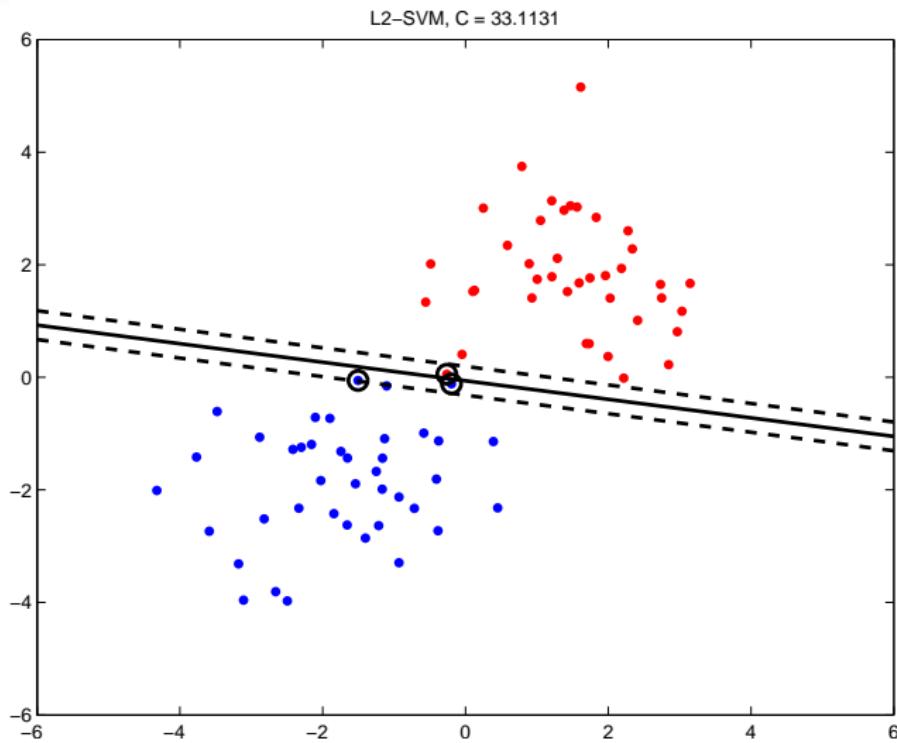
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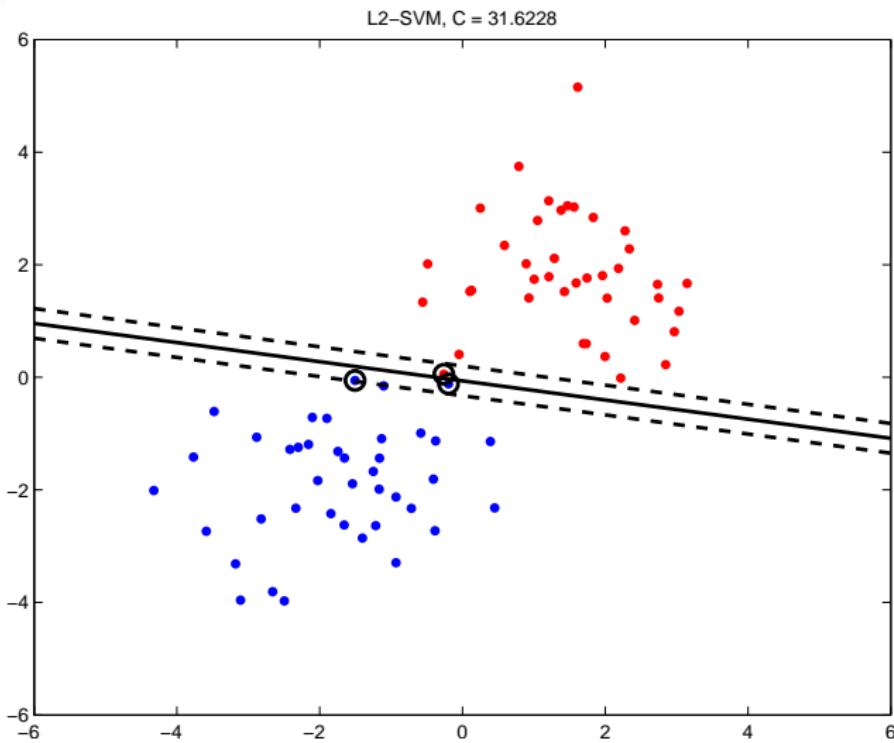
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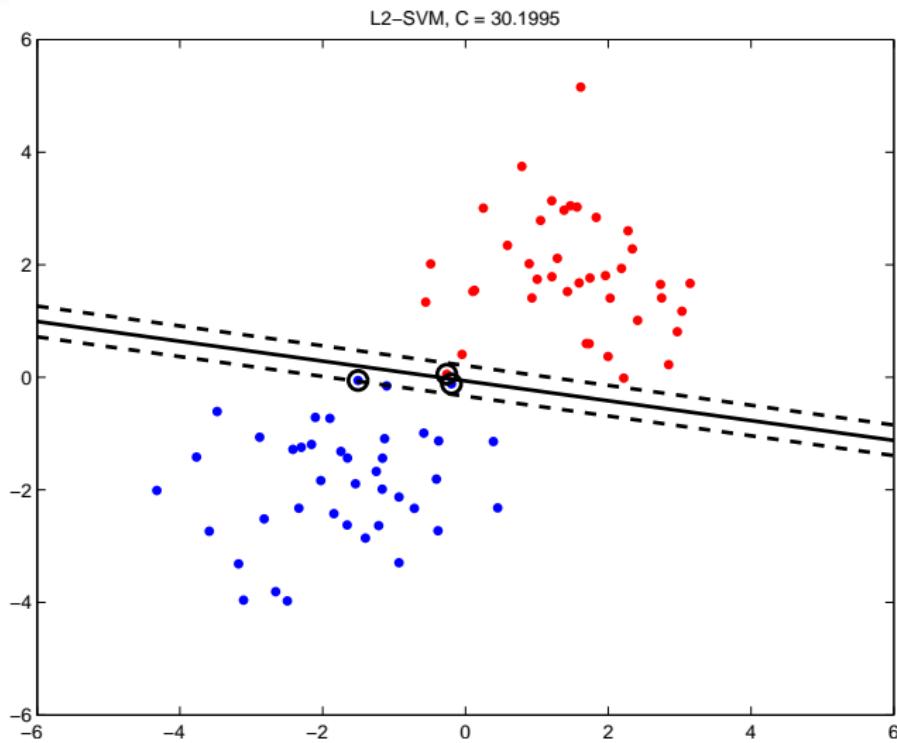
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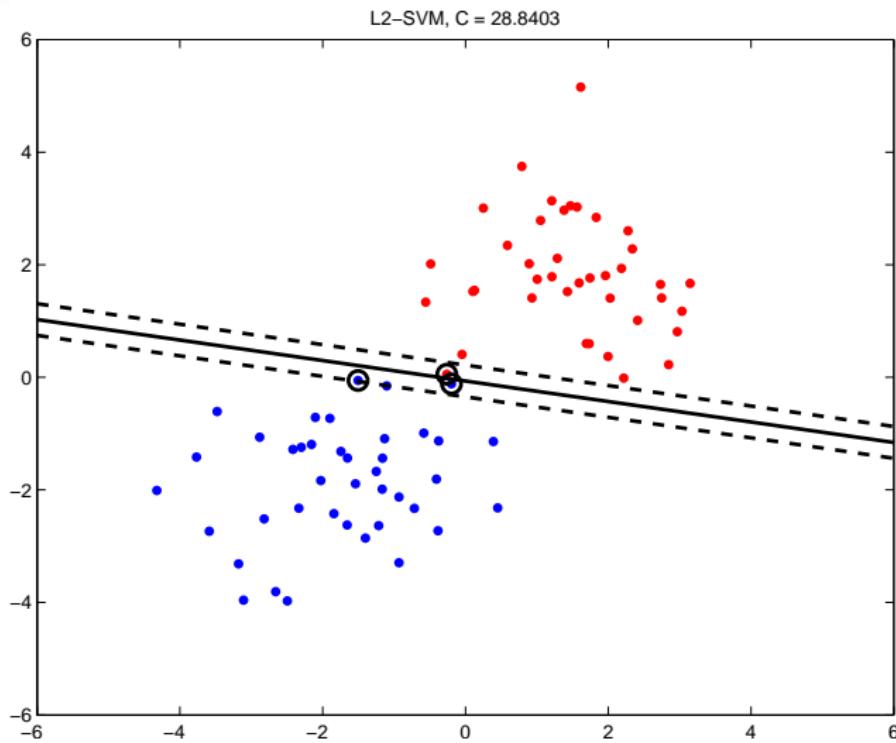
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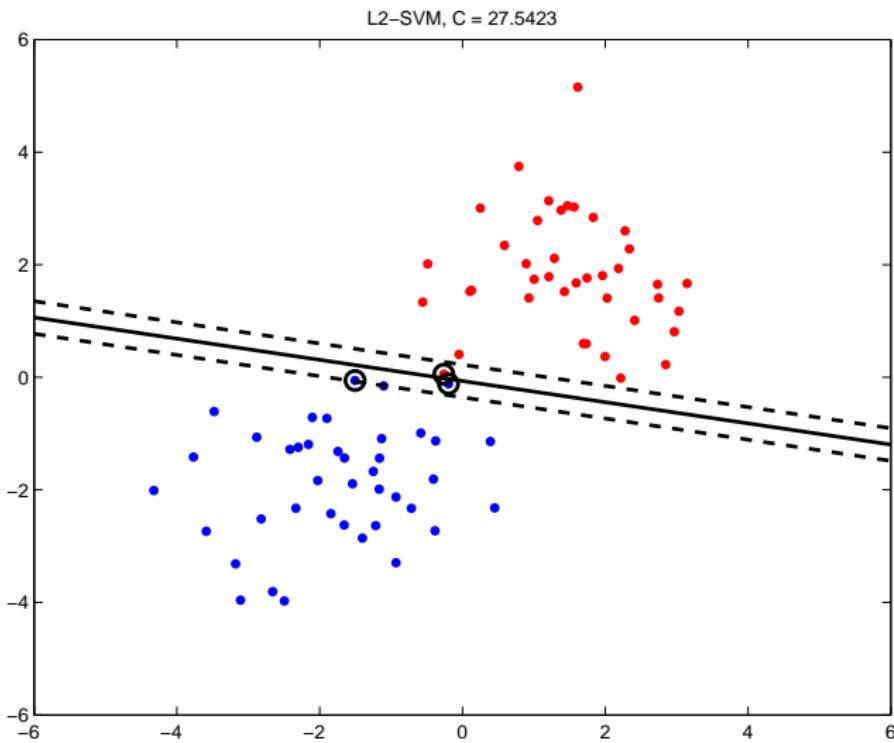
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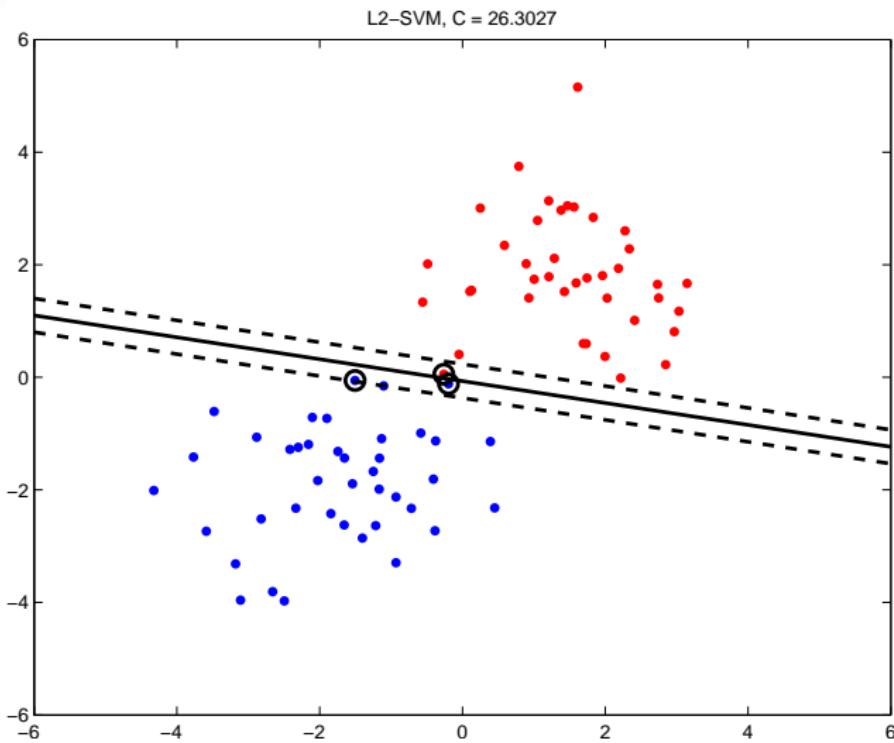
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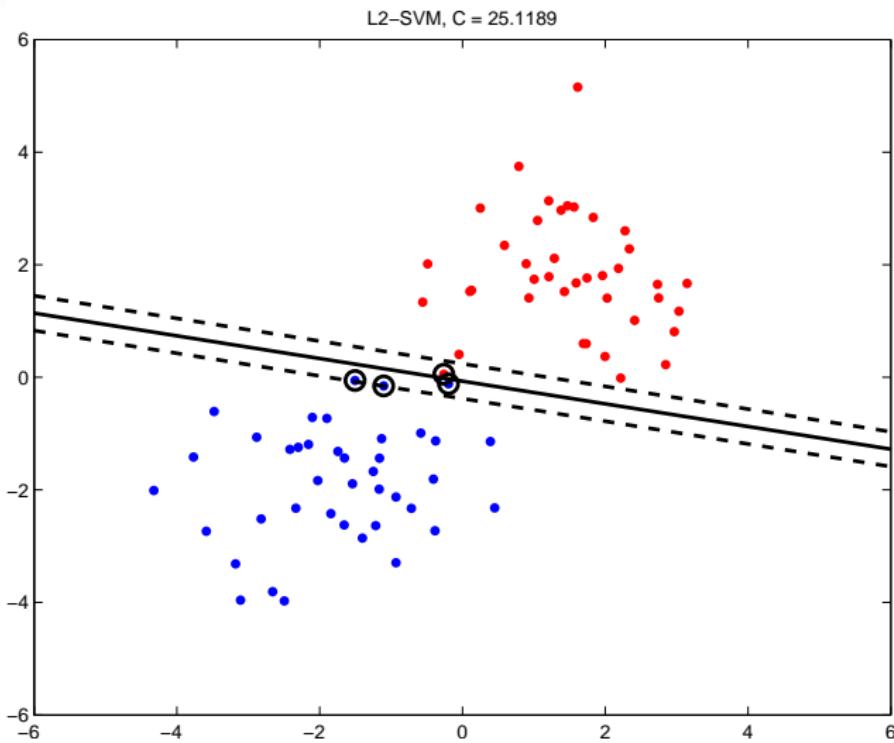
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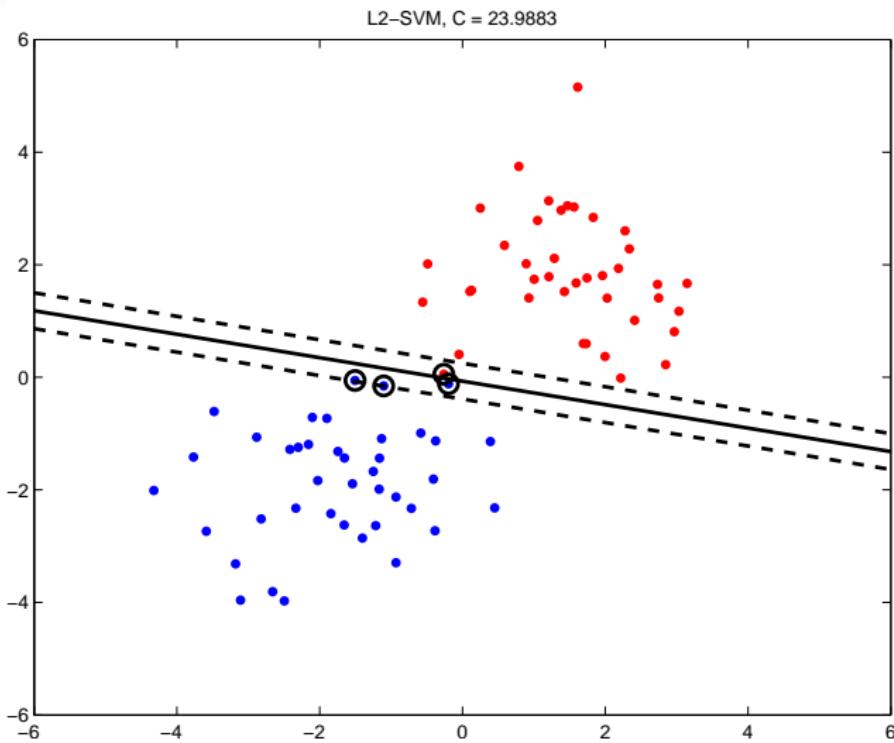
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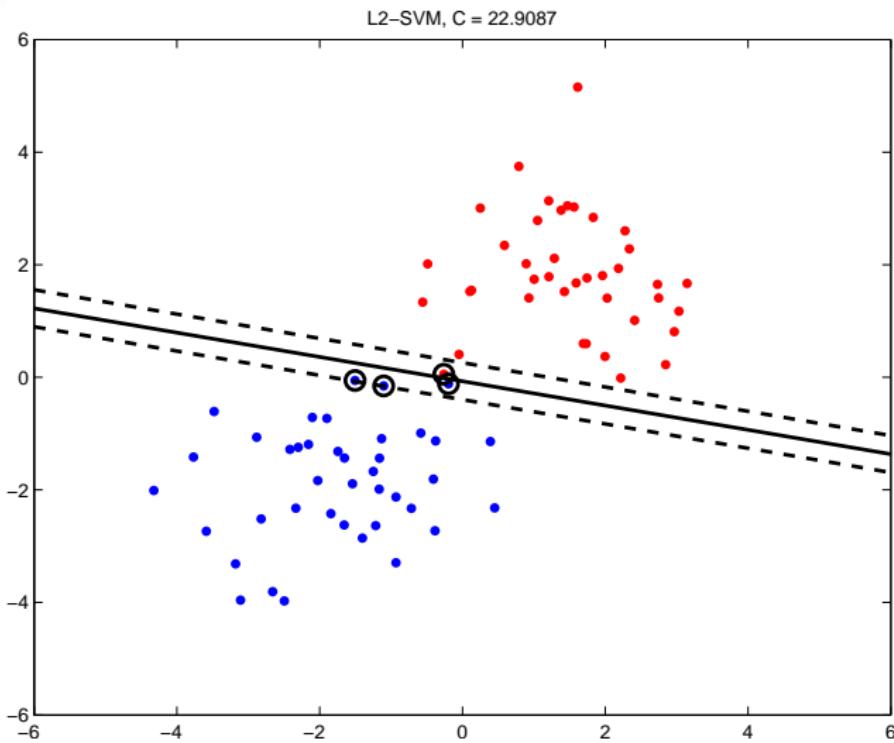
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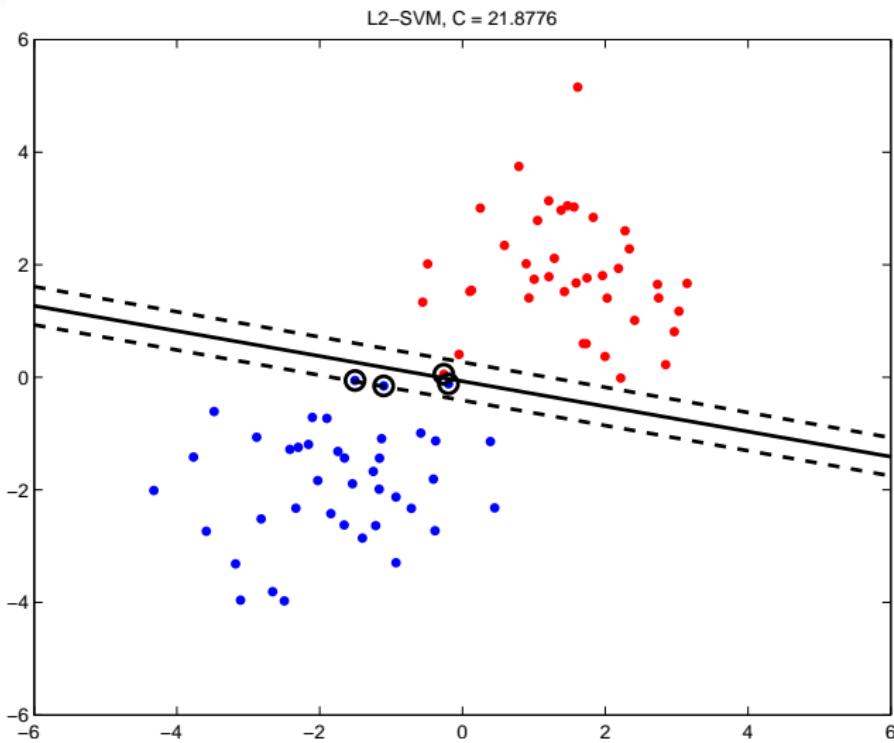
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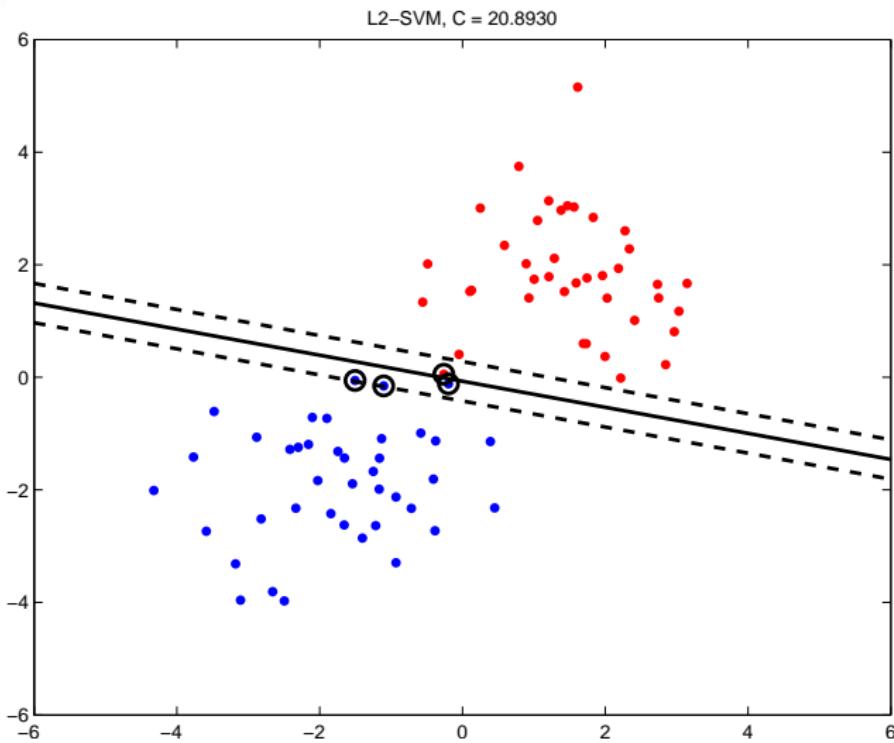
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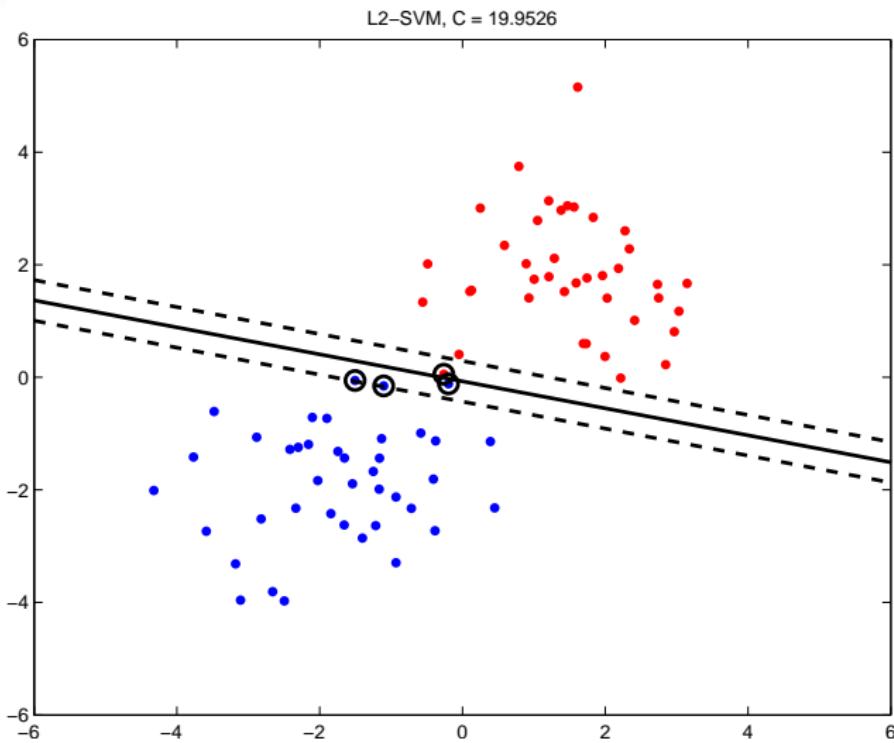
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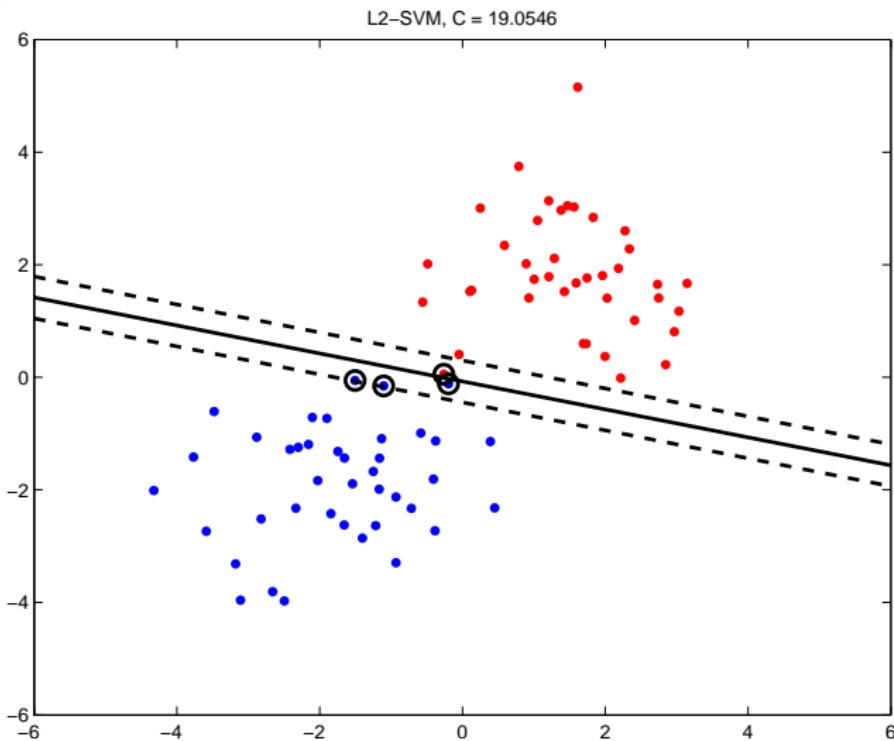
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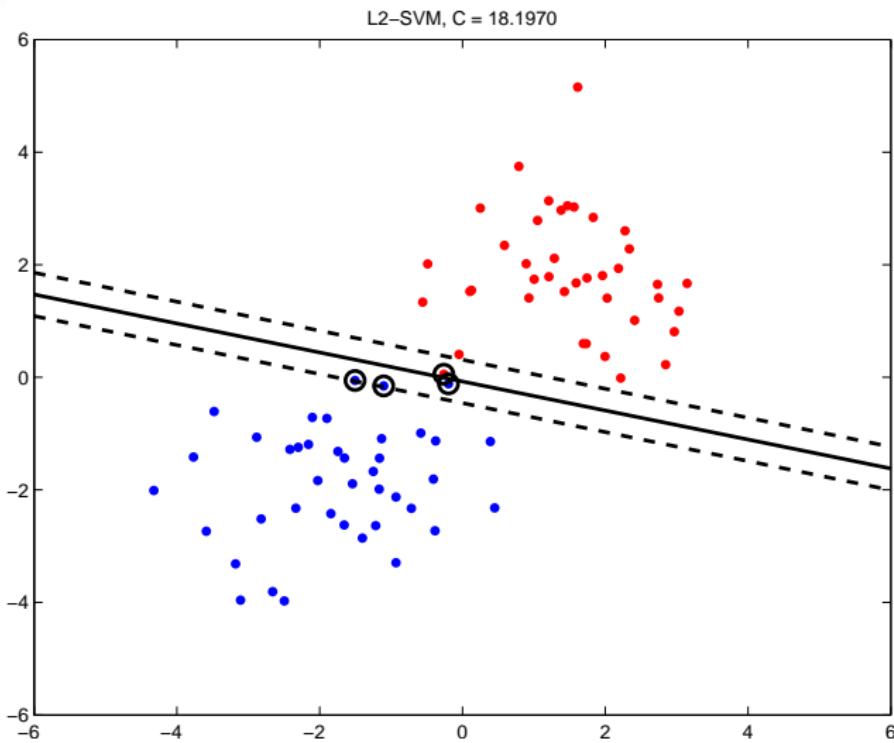
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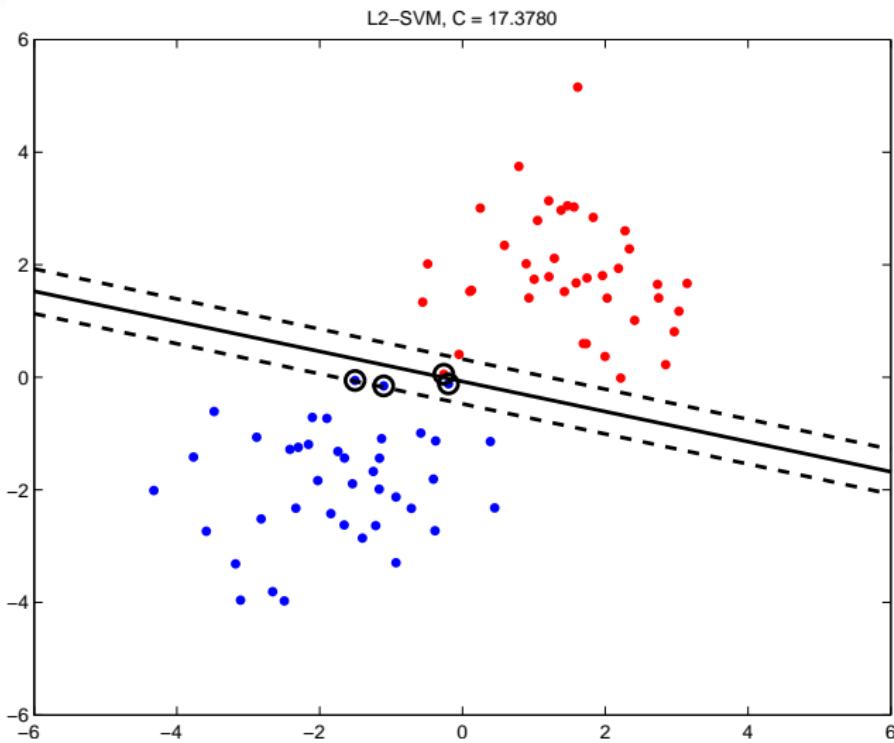
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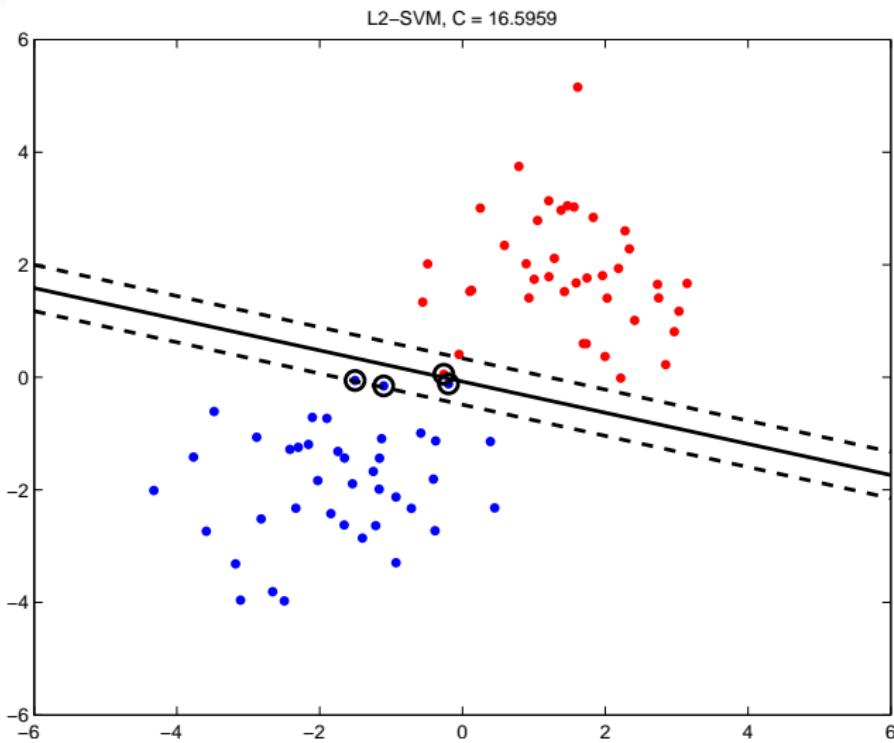
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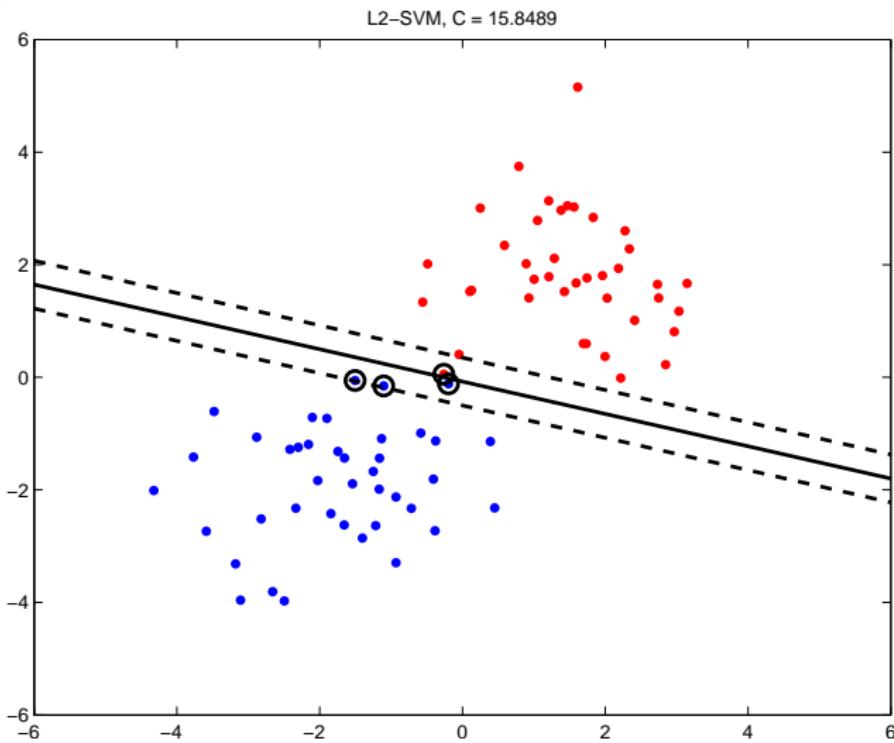
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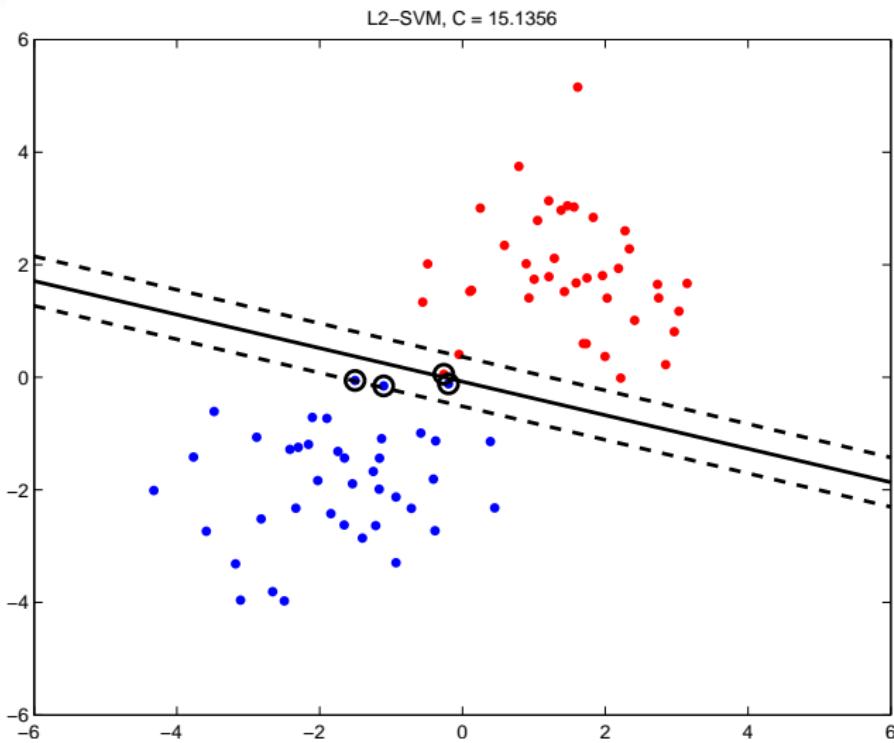
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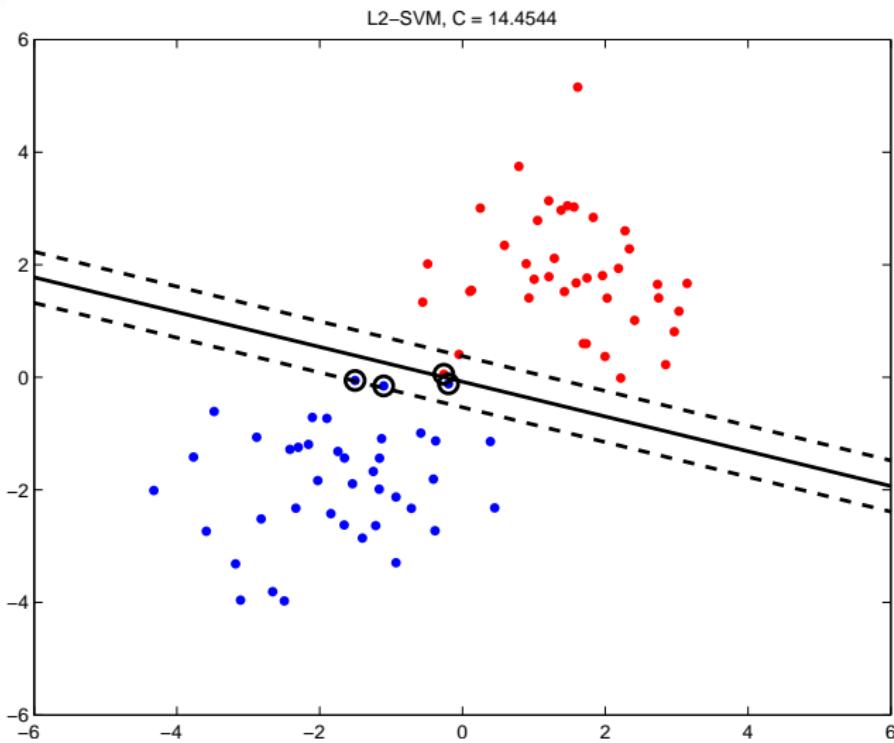
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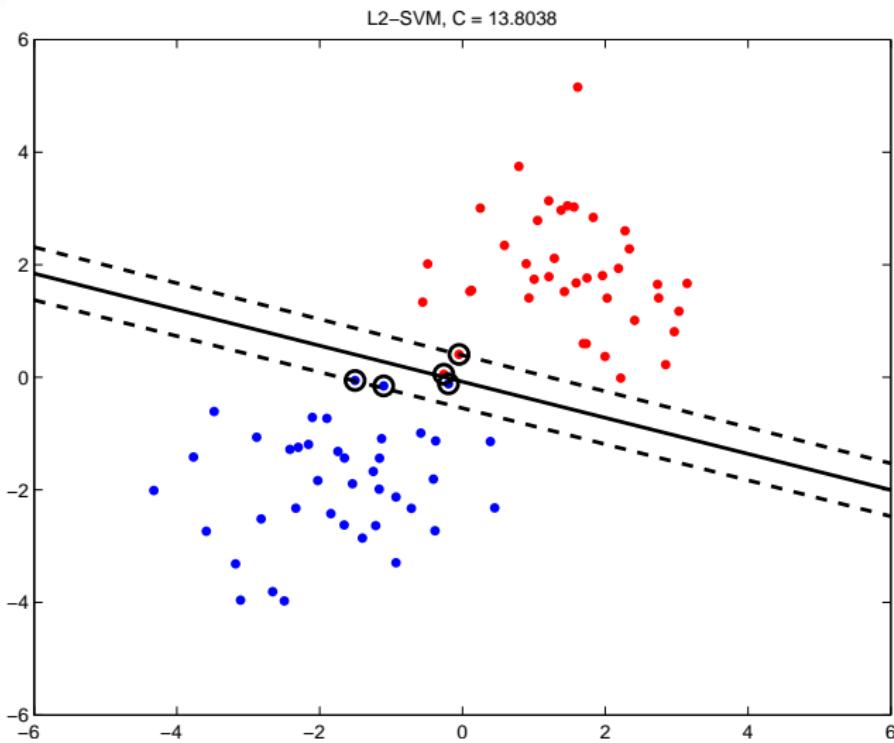
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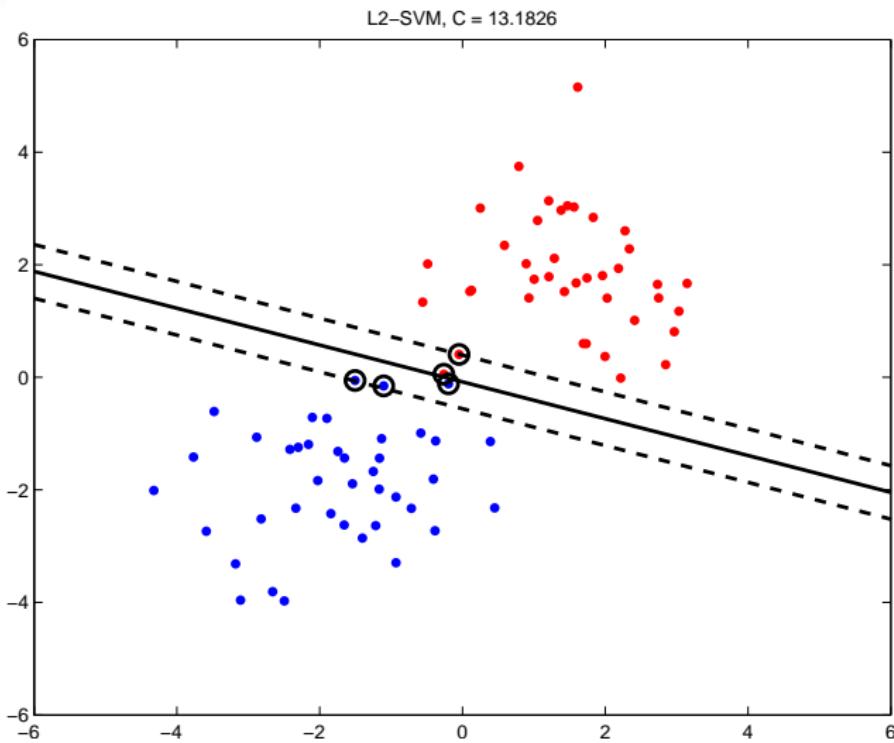
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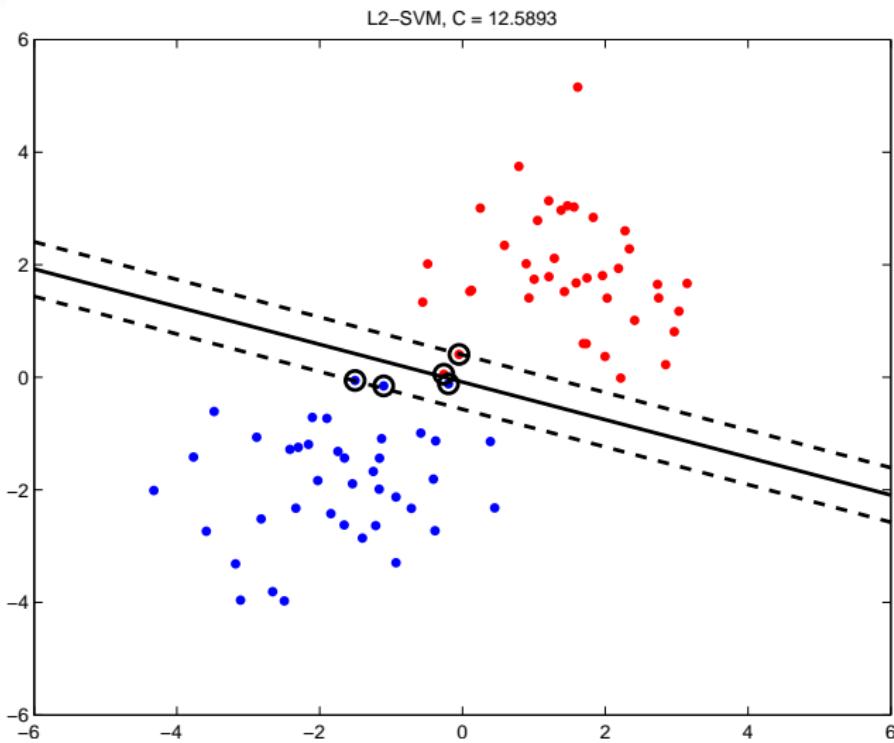
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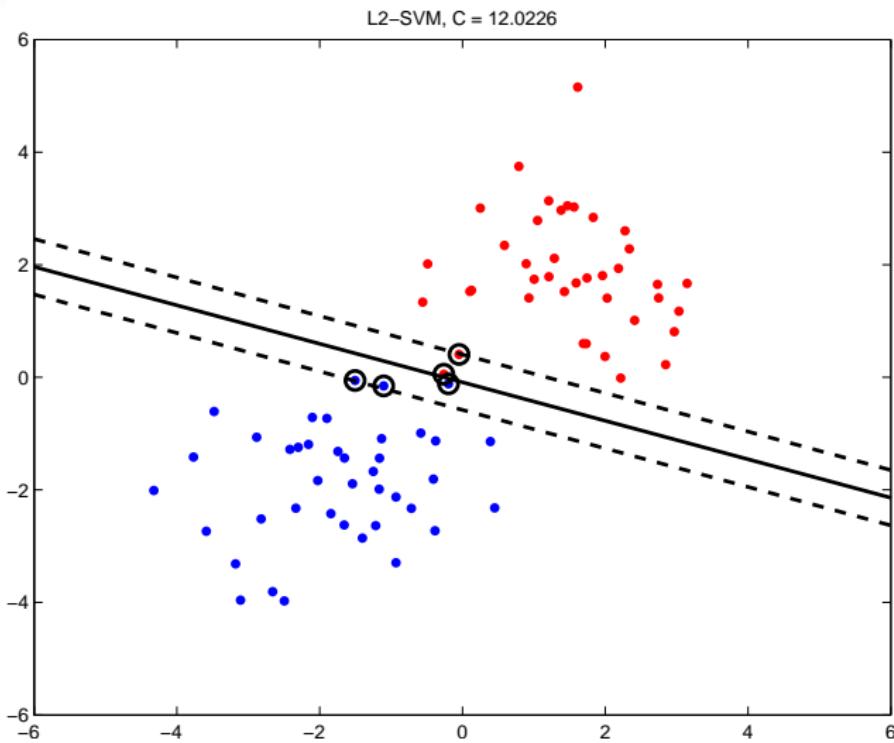
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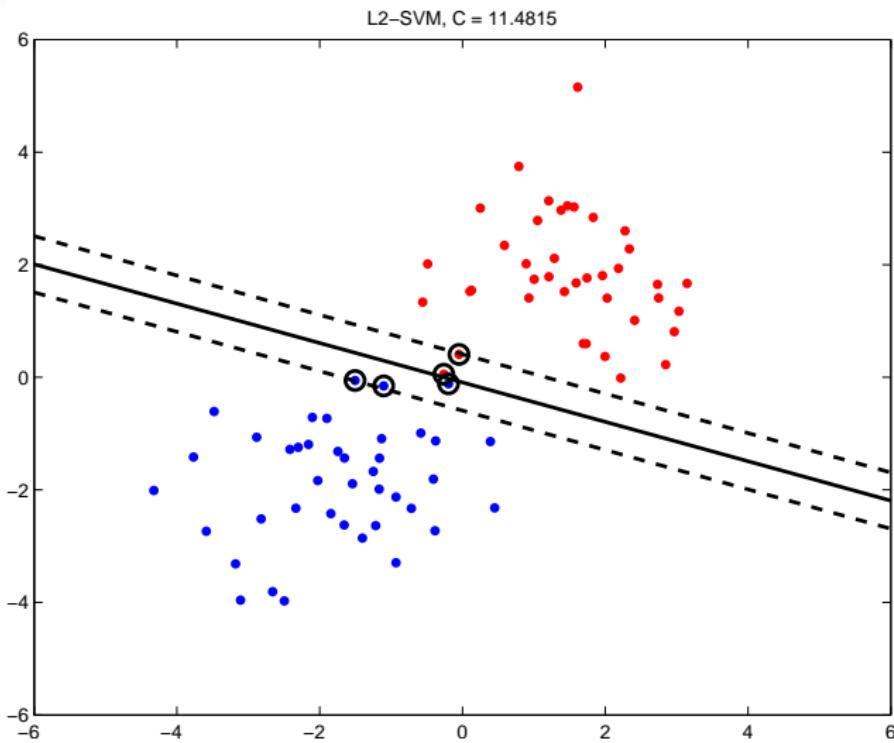
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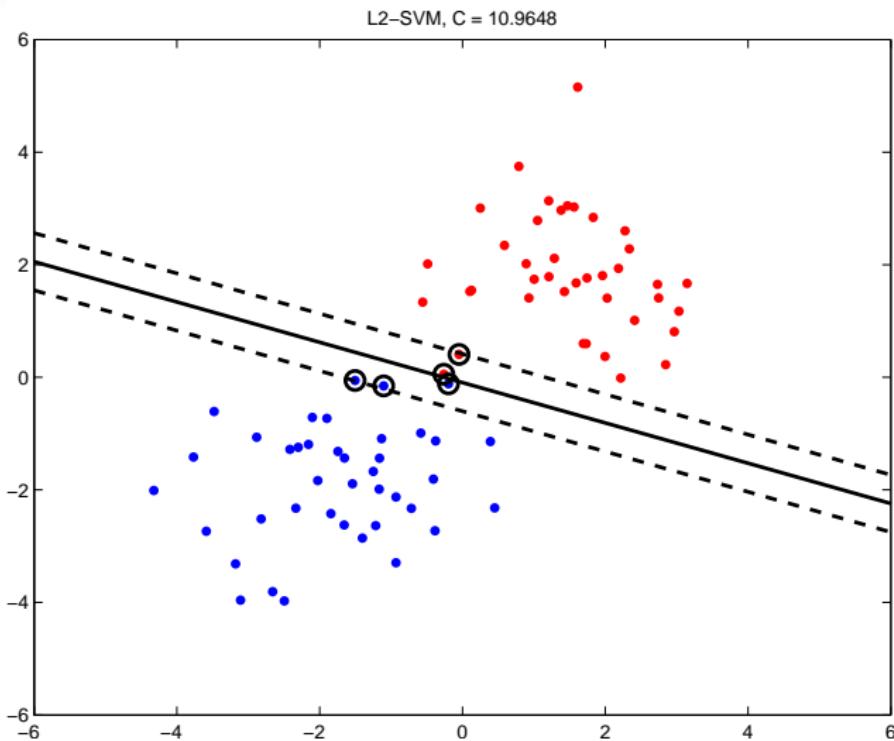
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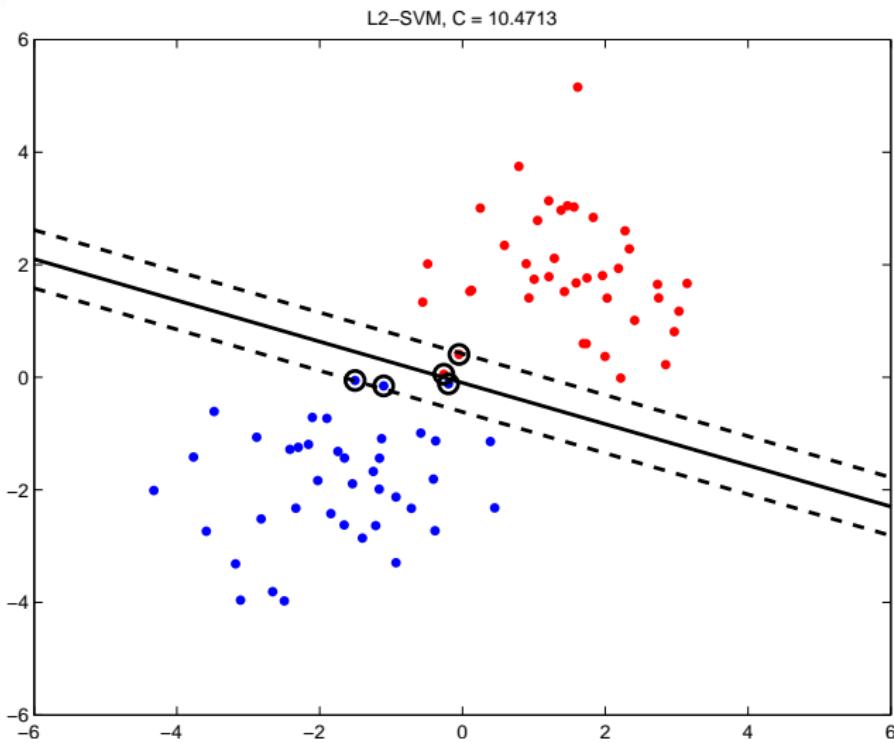
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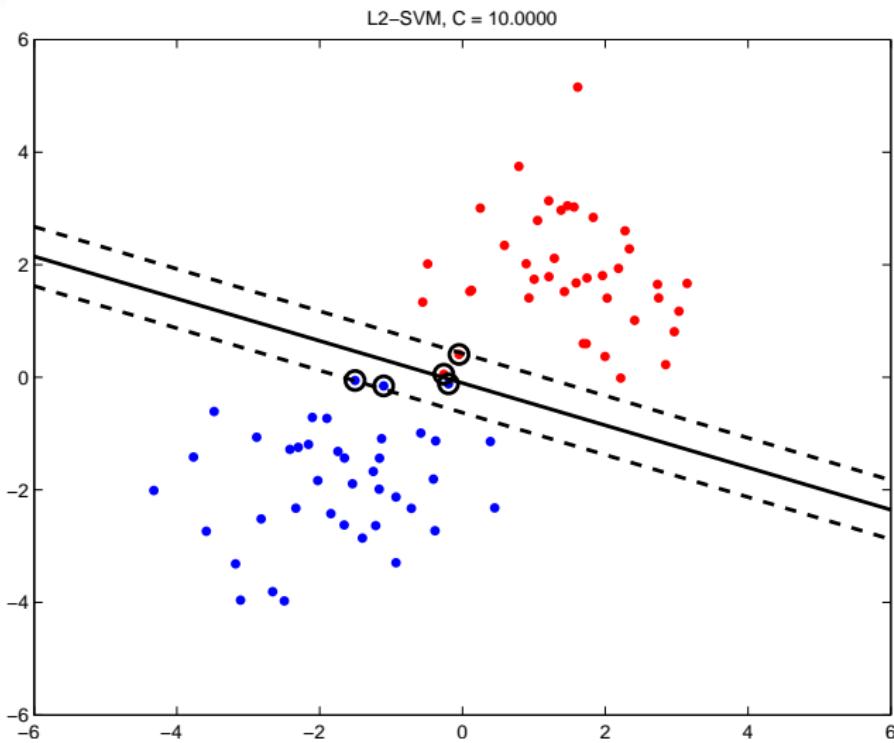
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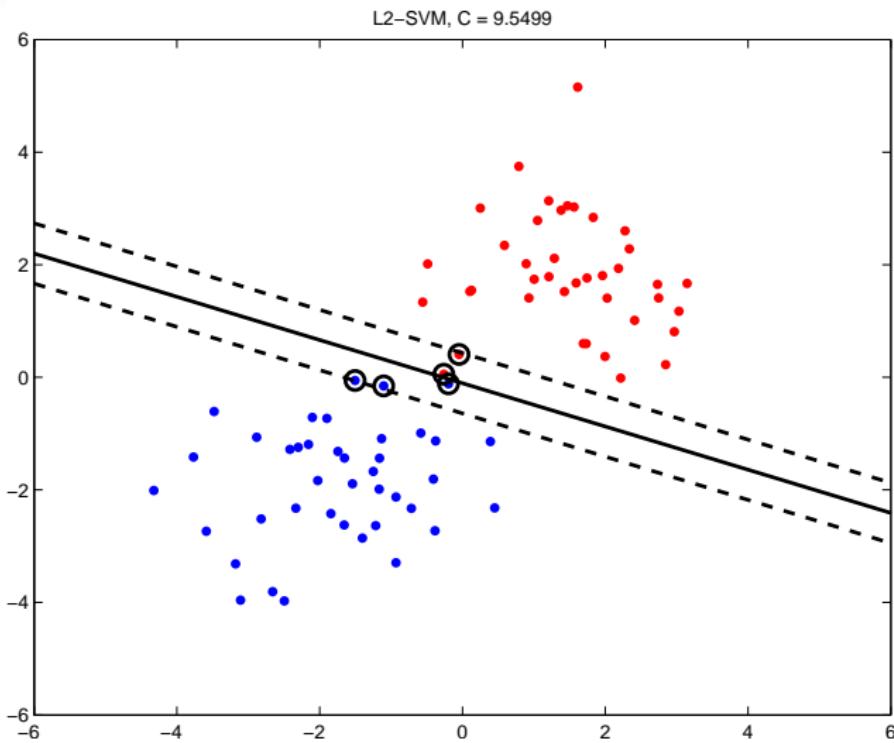
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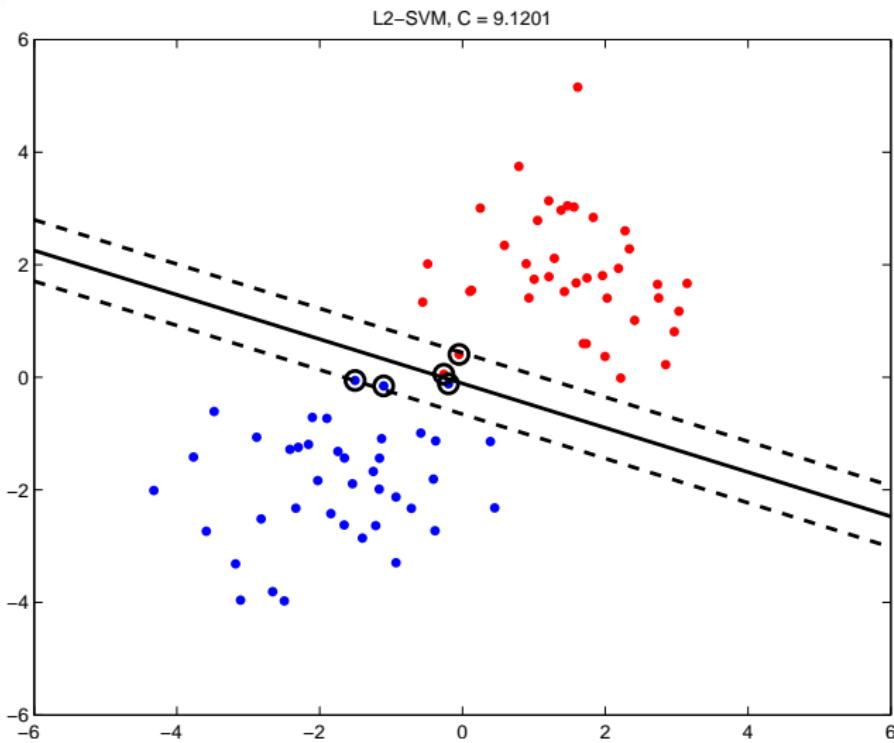
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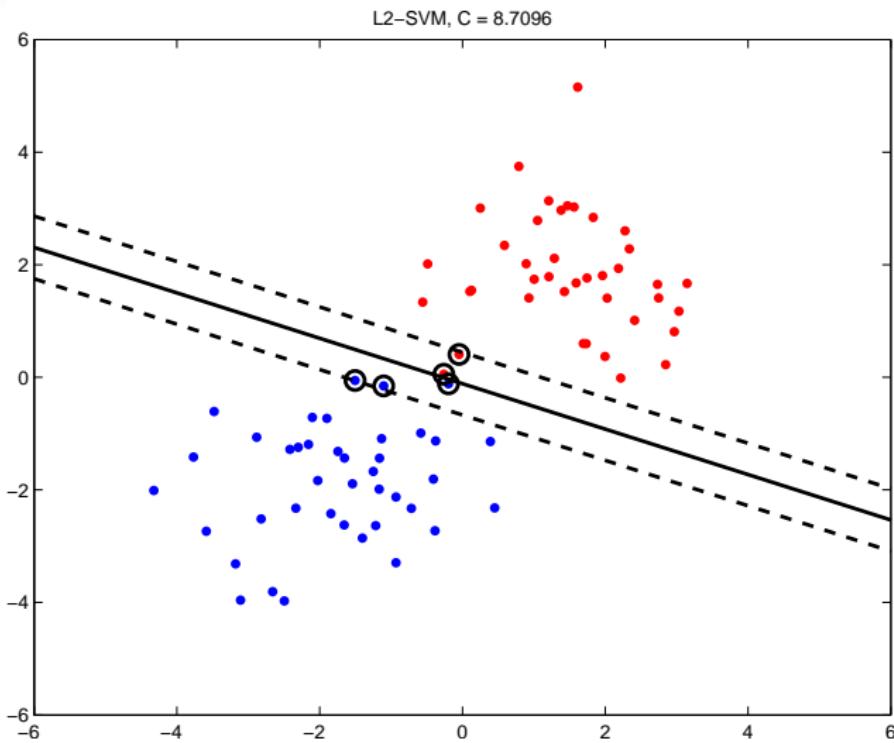
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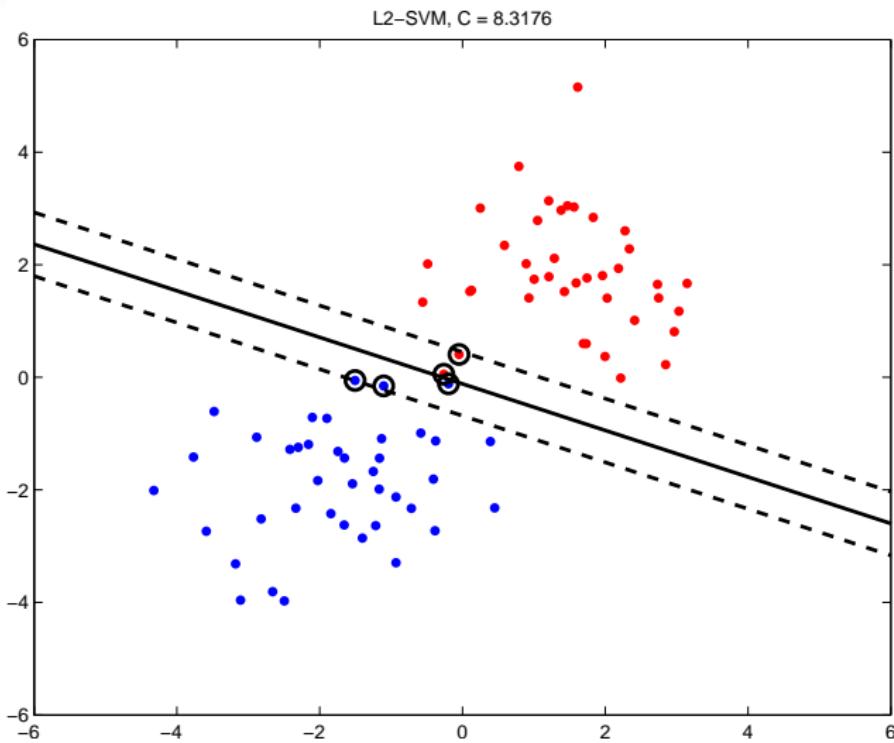
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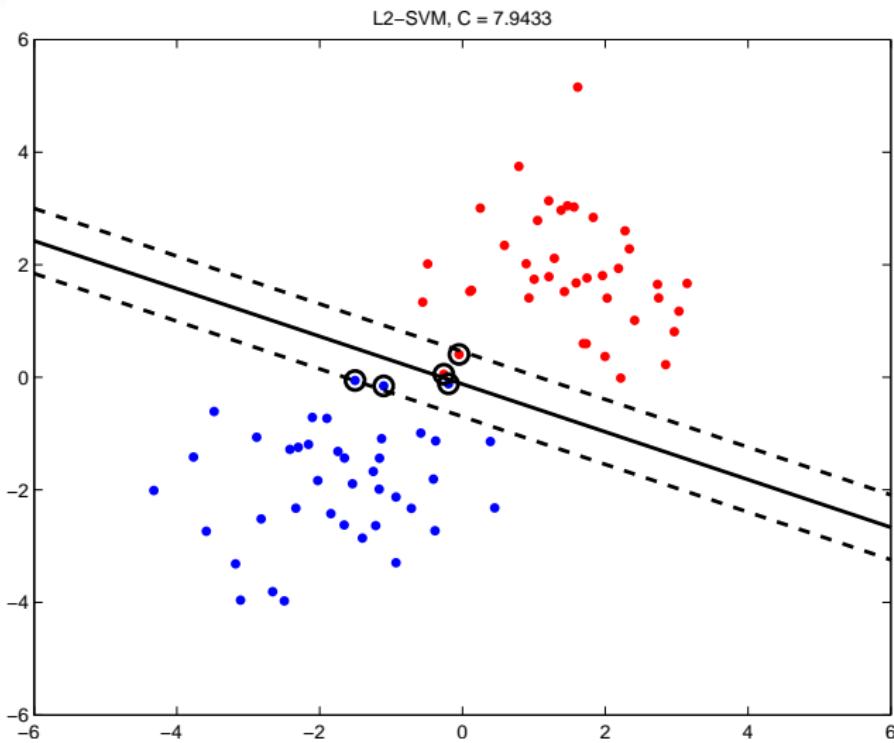
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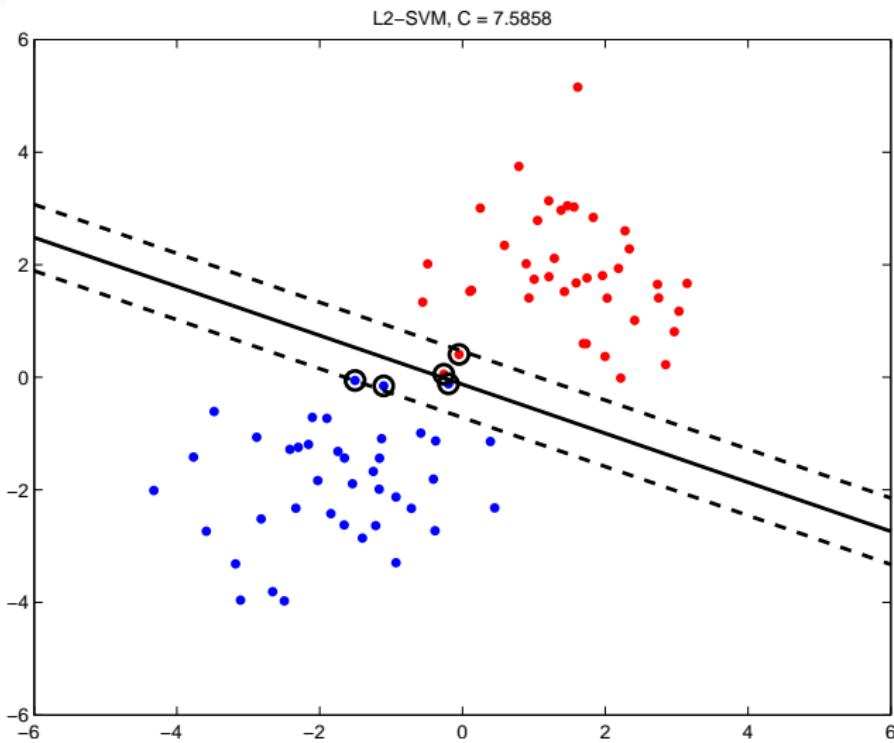
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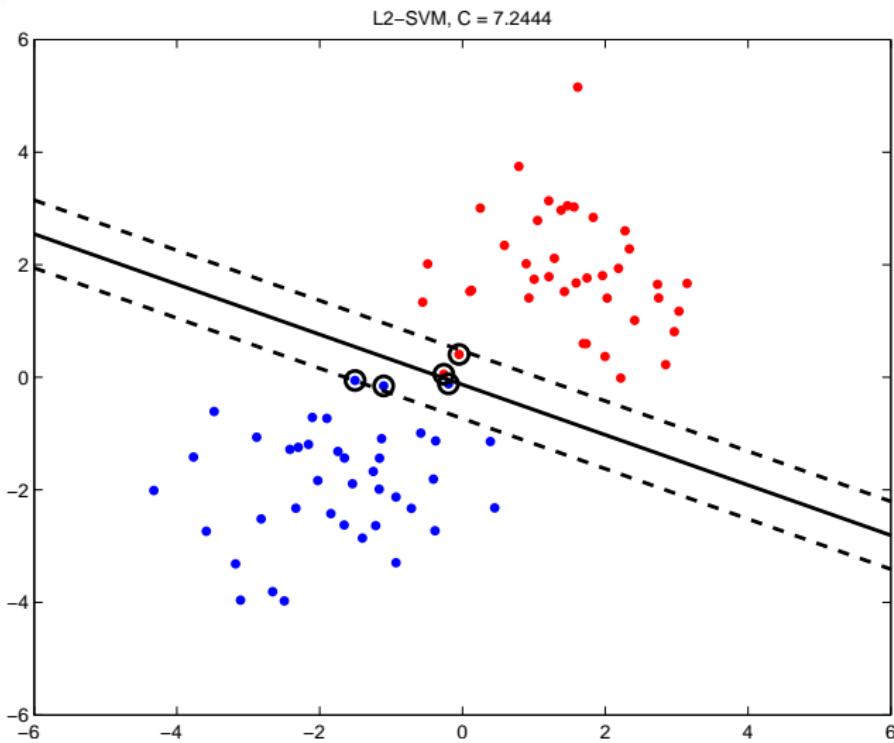
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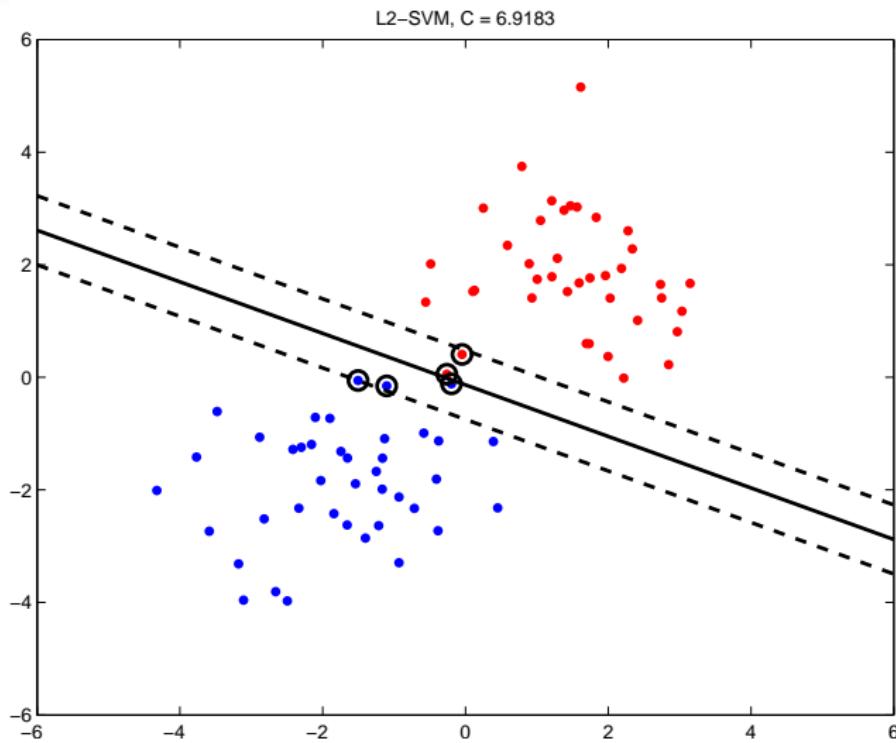
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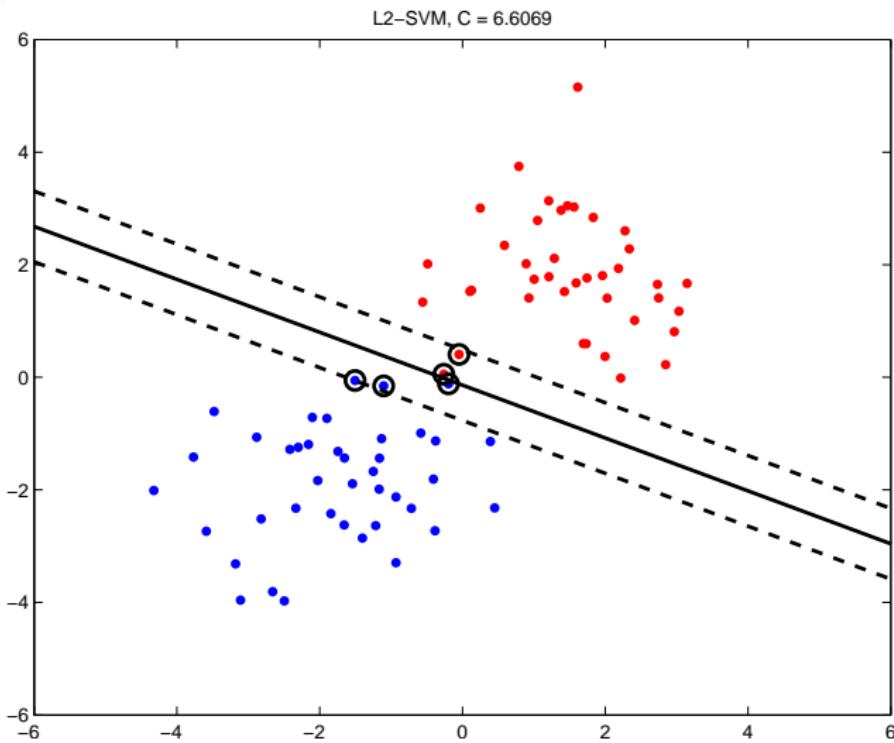
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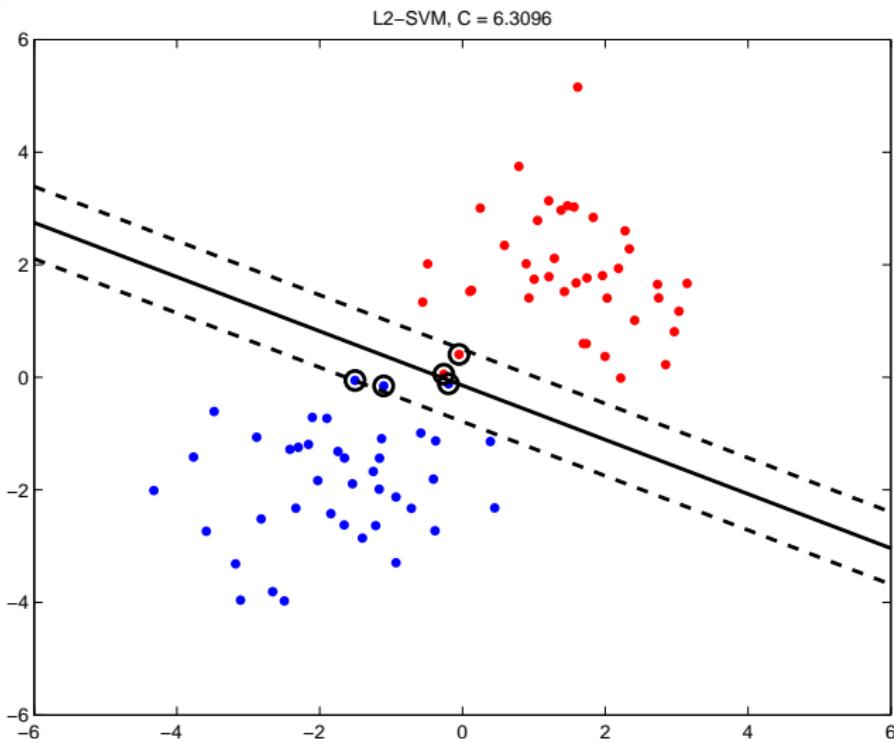
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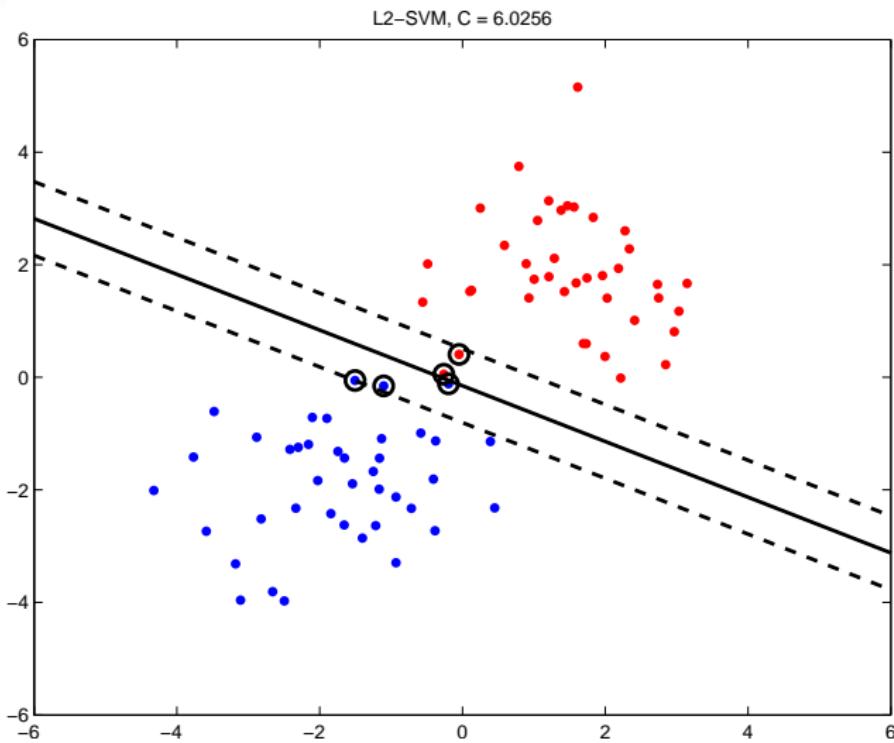
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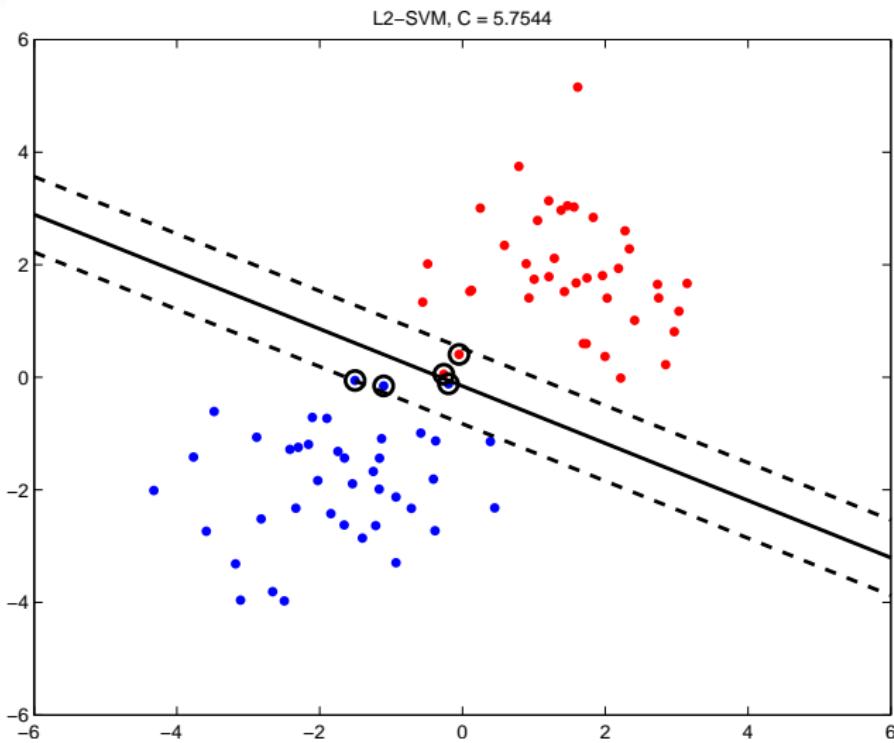
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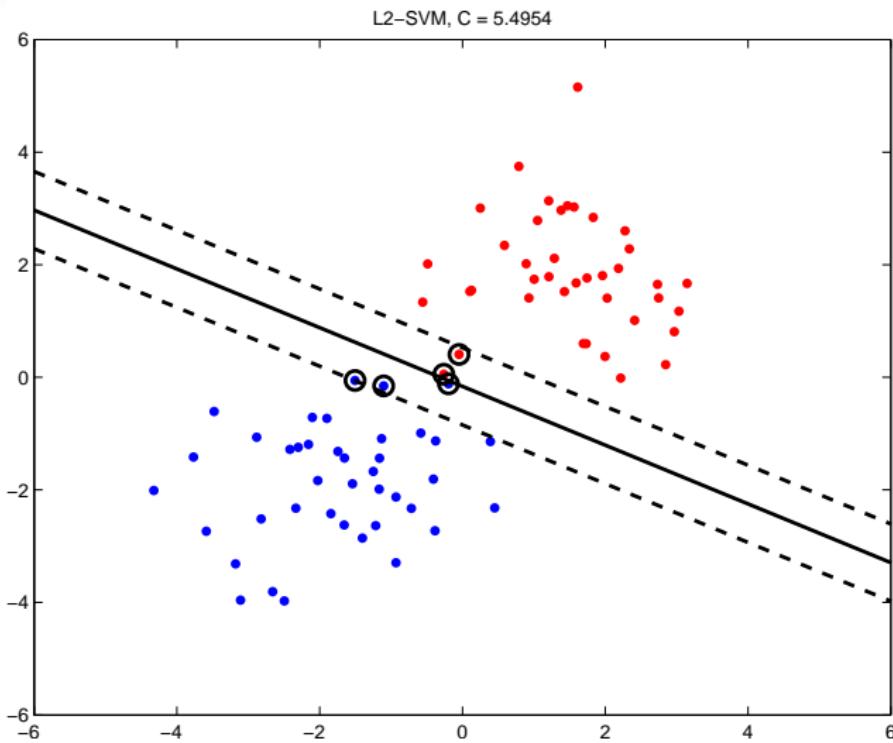
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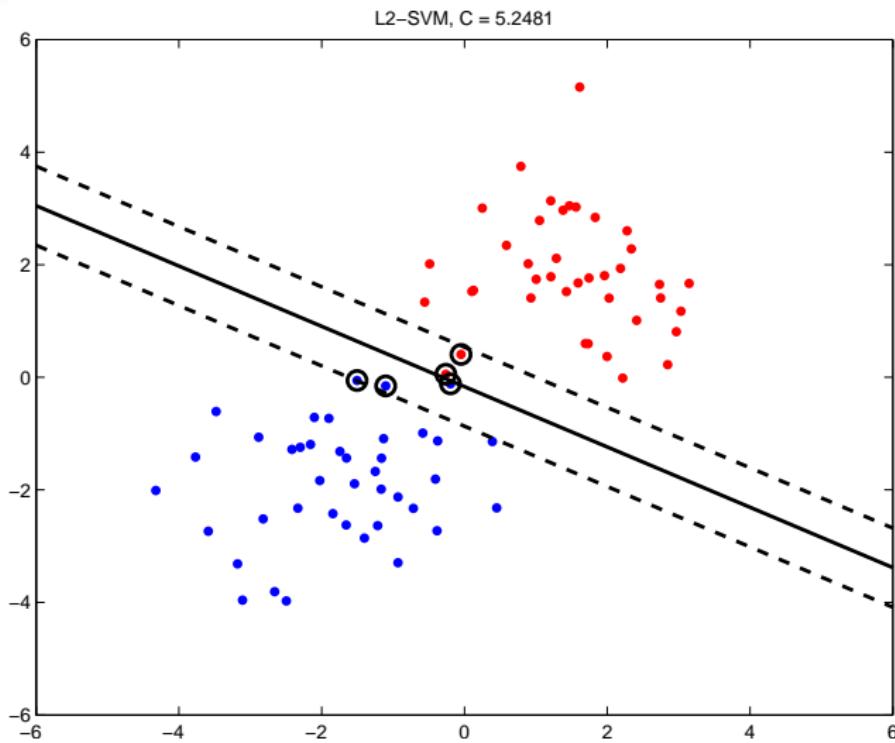
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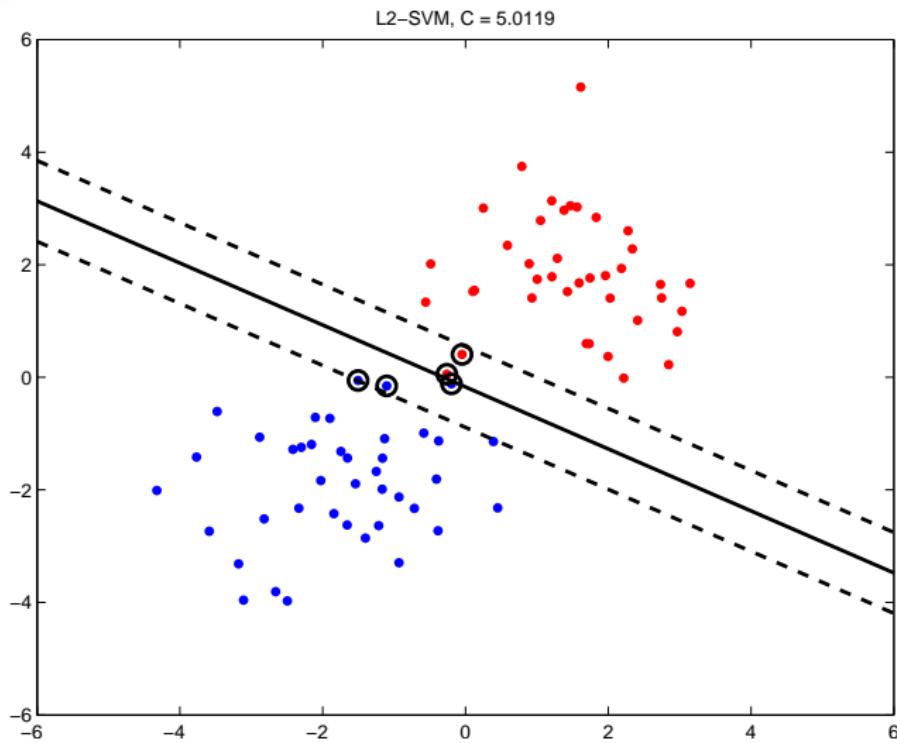
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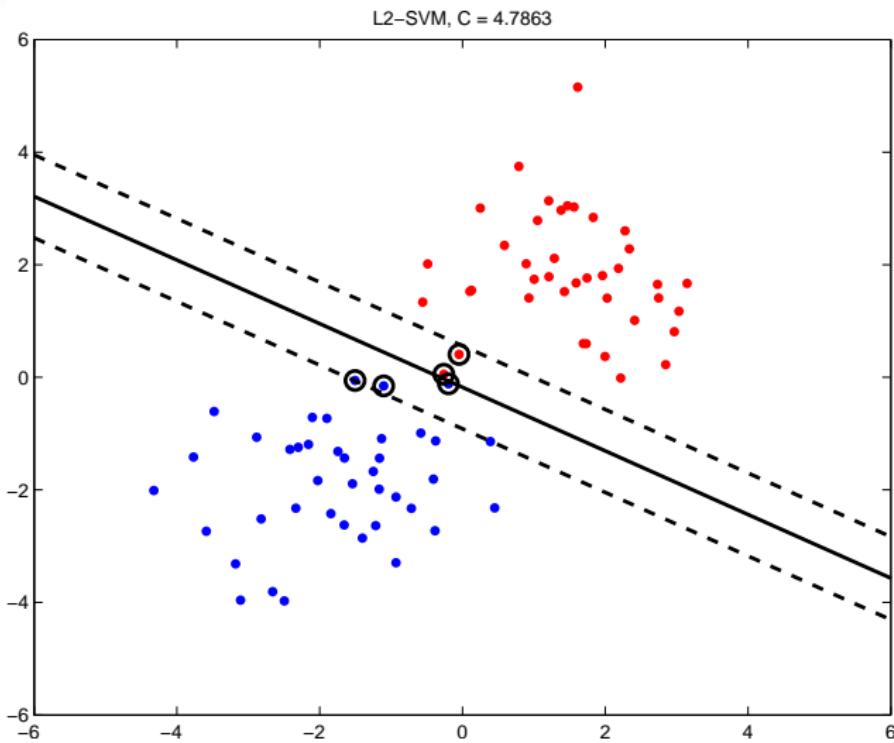
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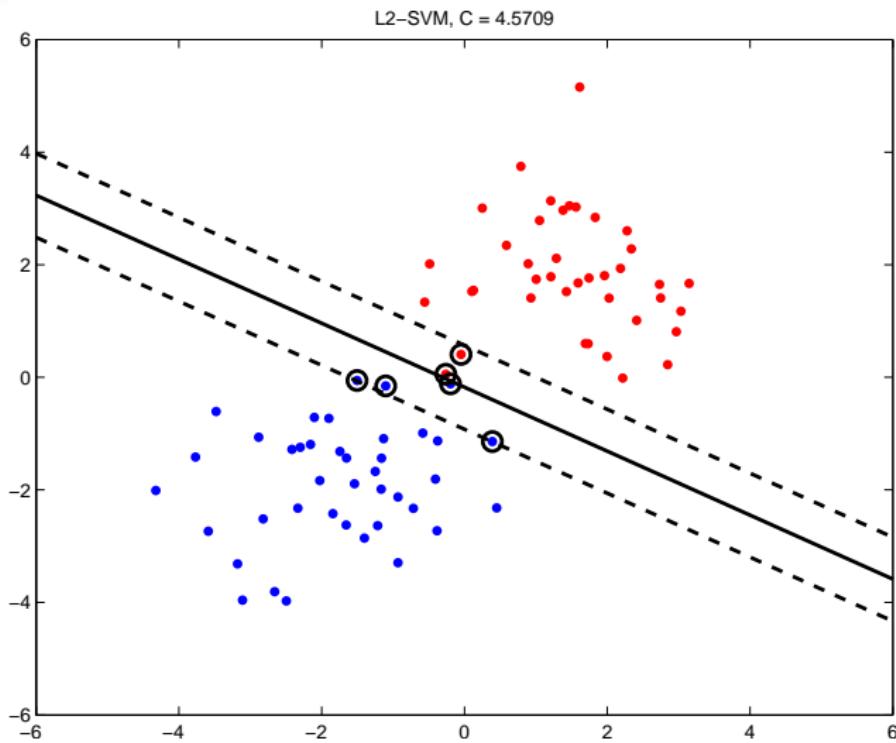
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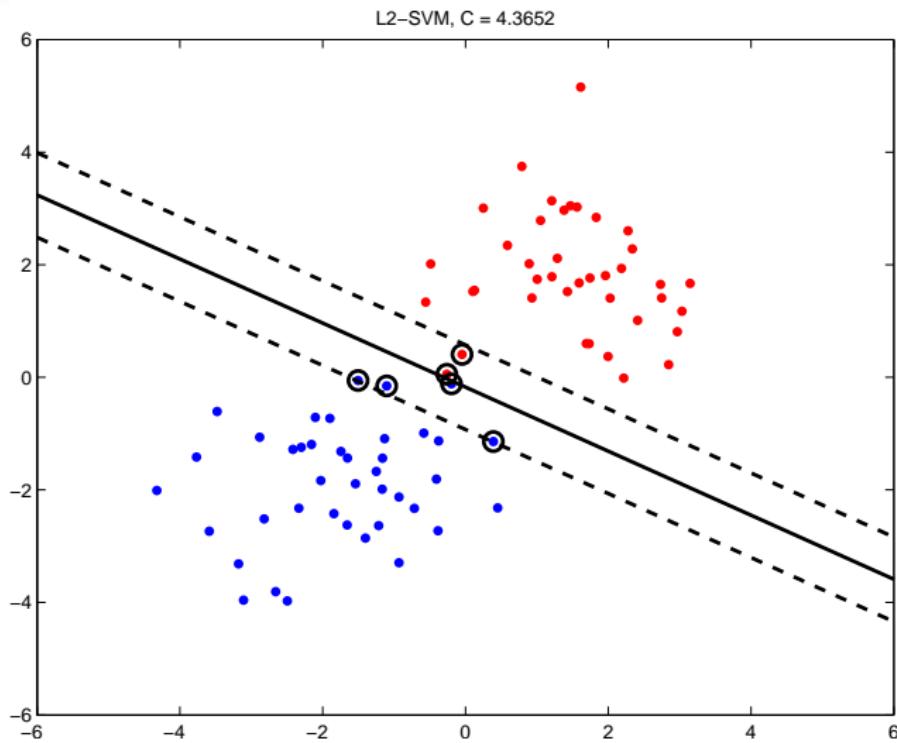
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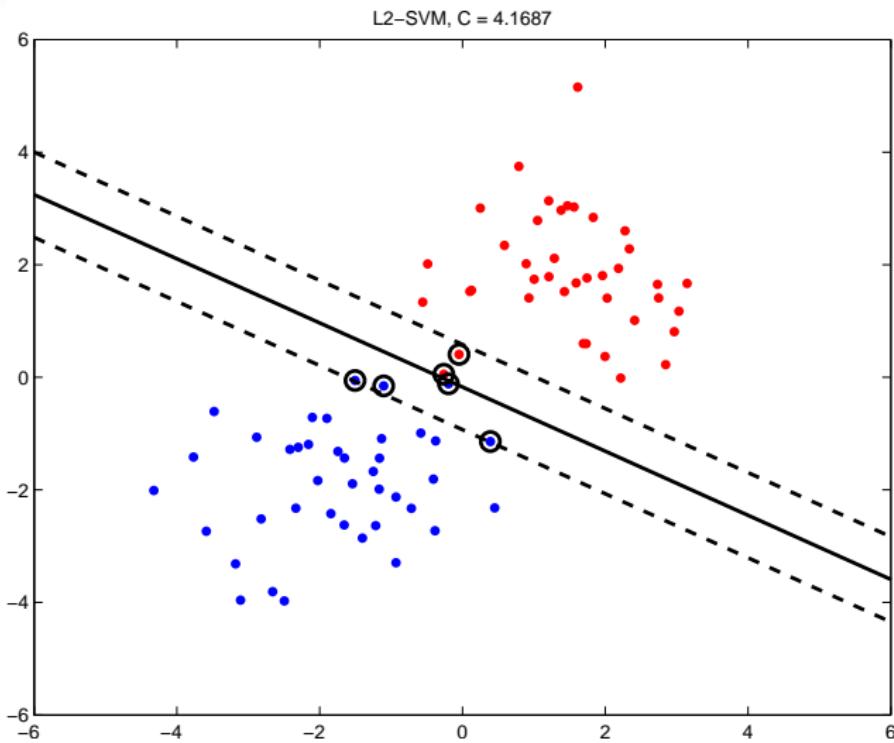
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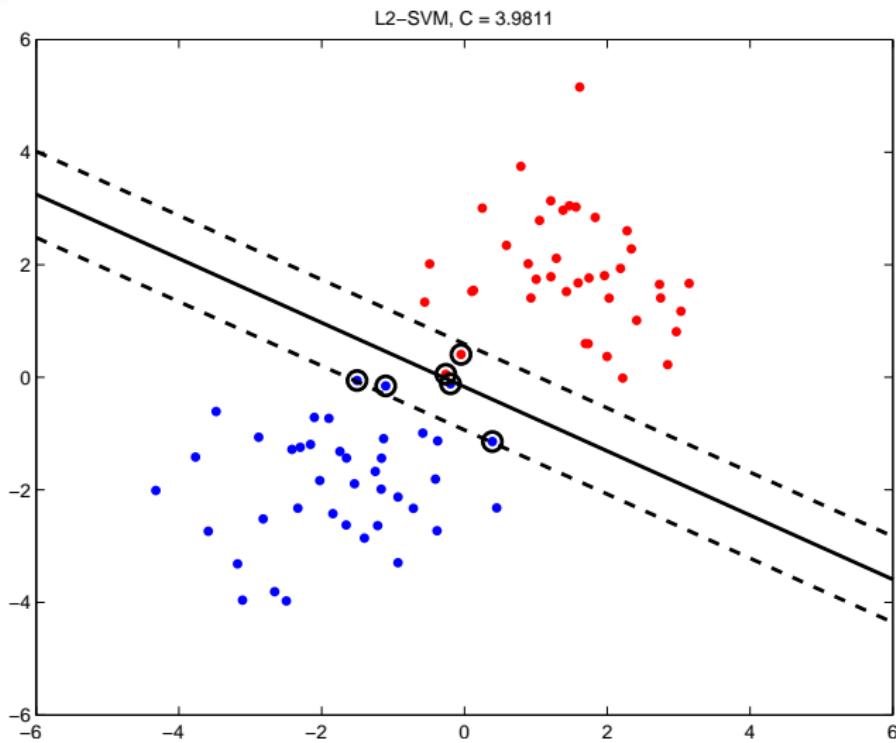
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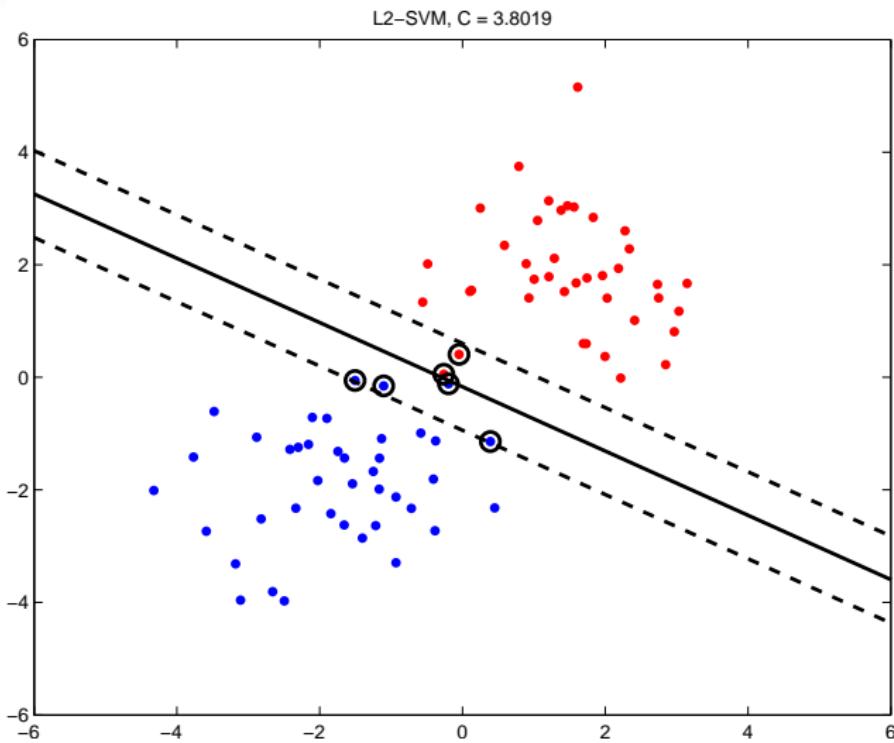
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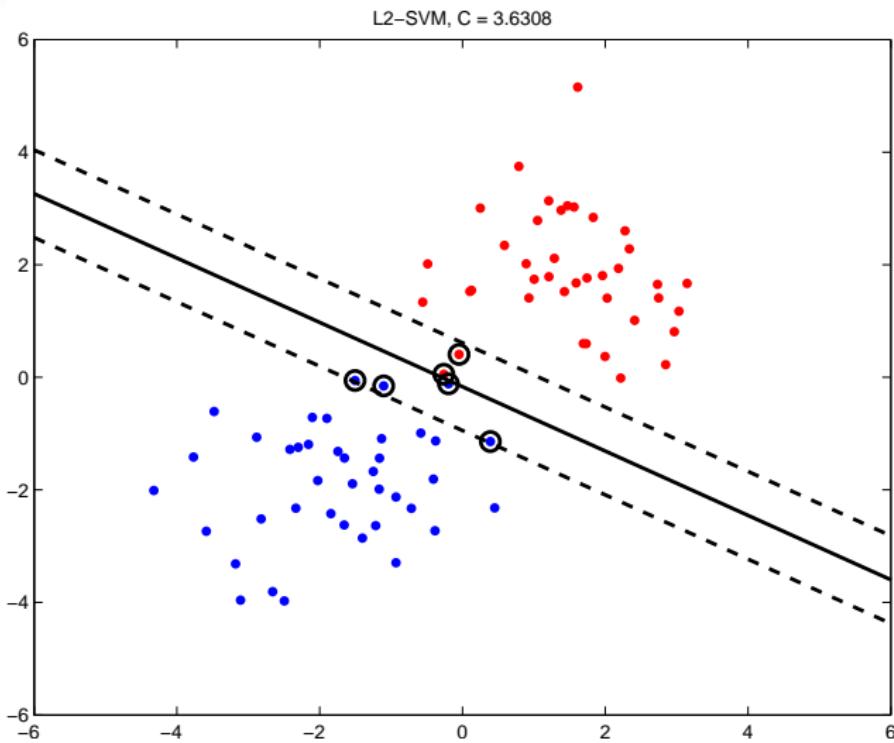
# L2-SVM Example



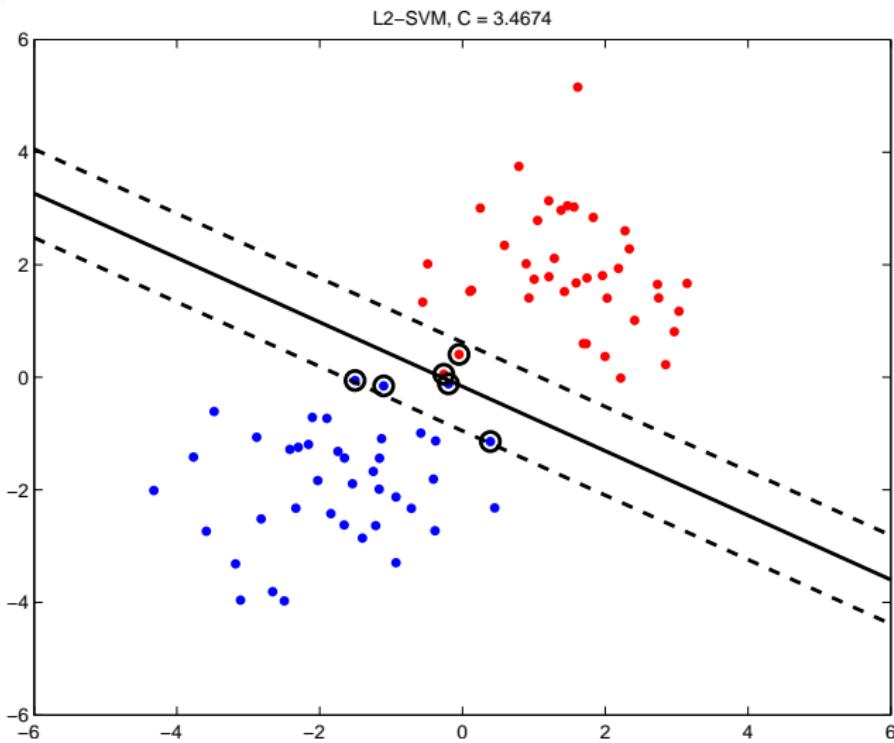
# L2-SVM Example



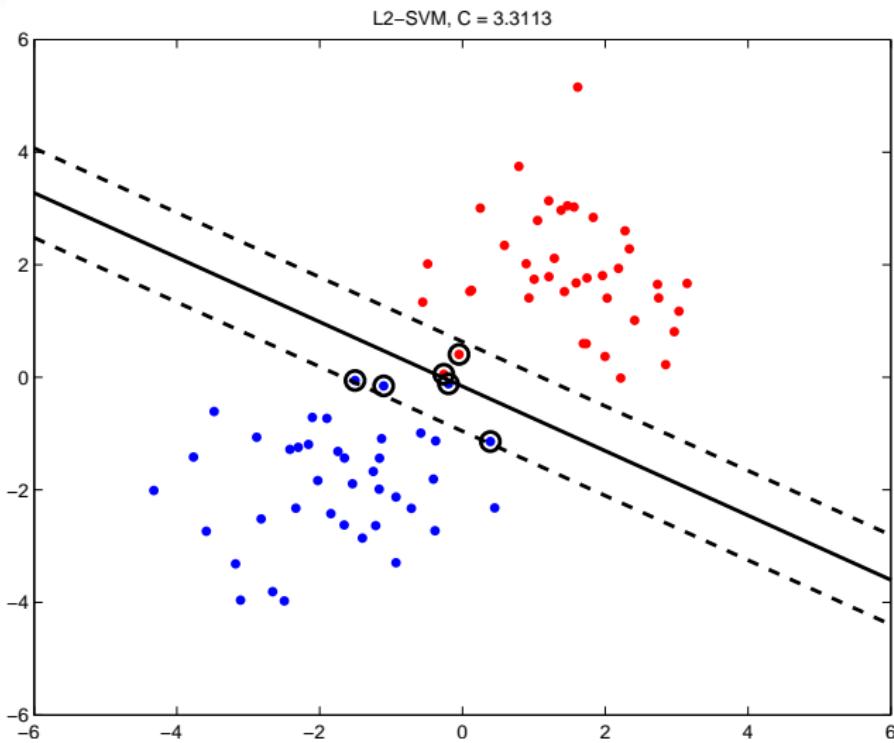
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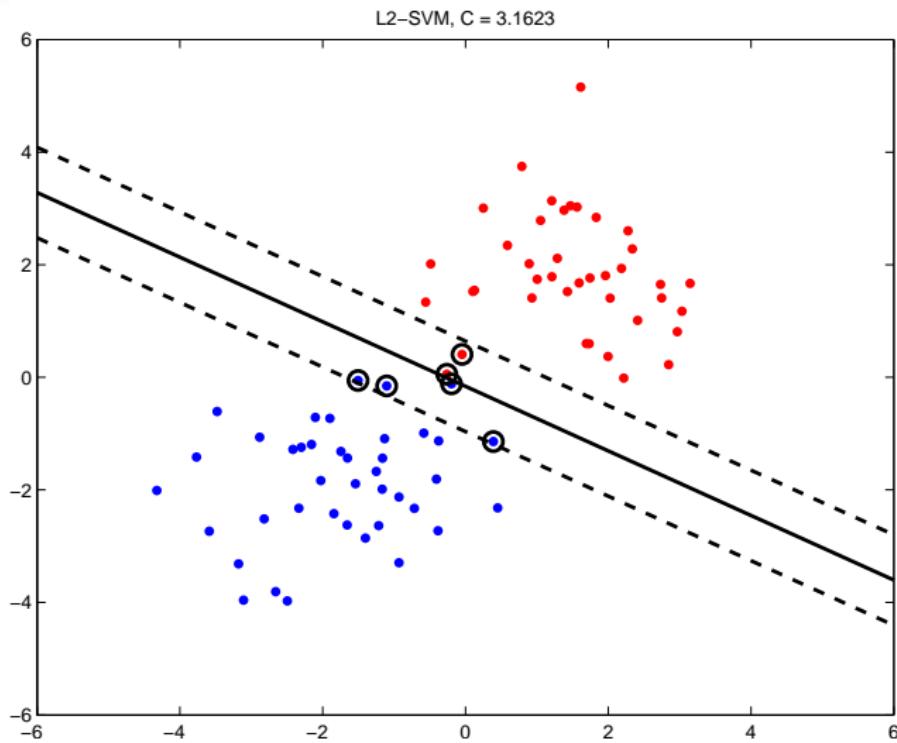
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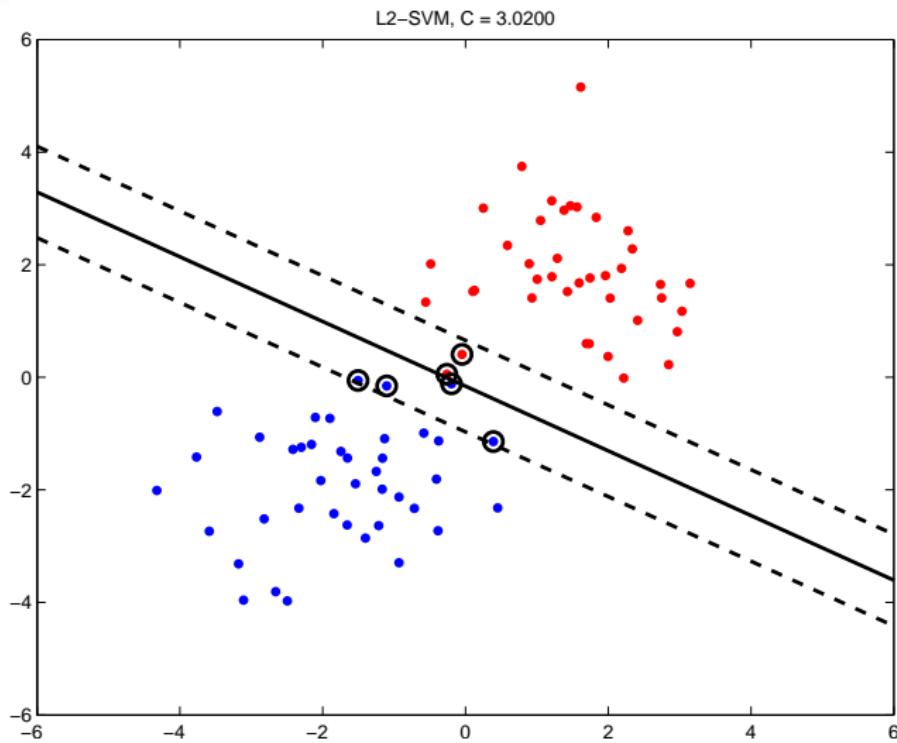
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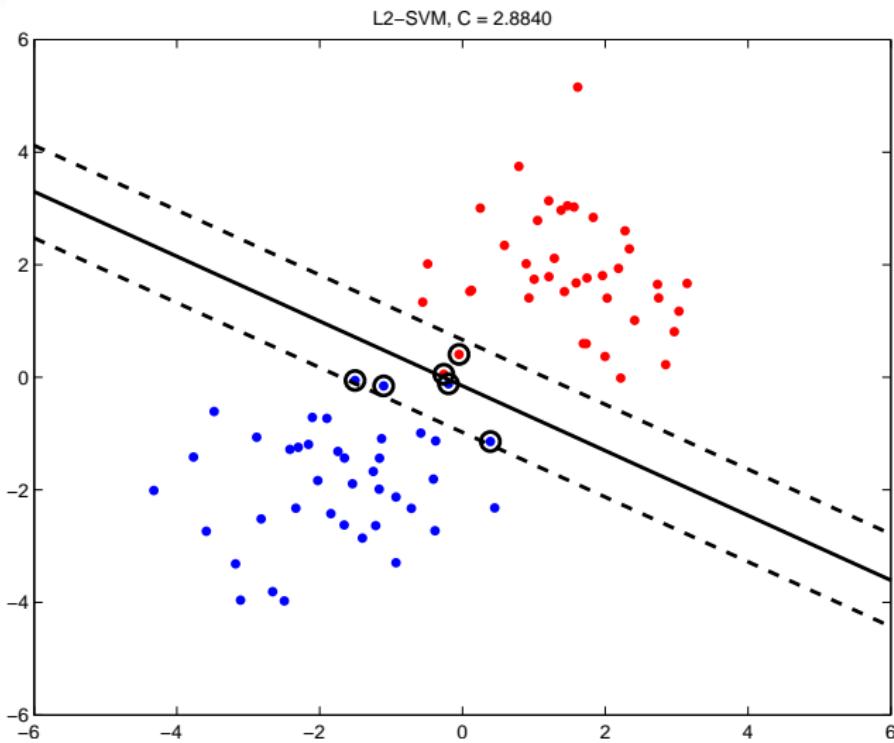
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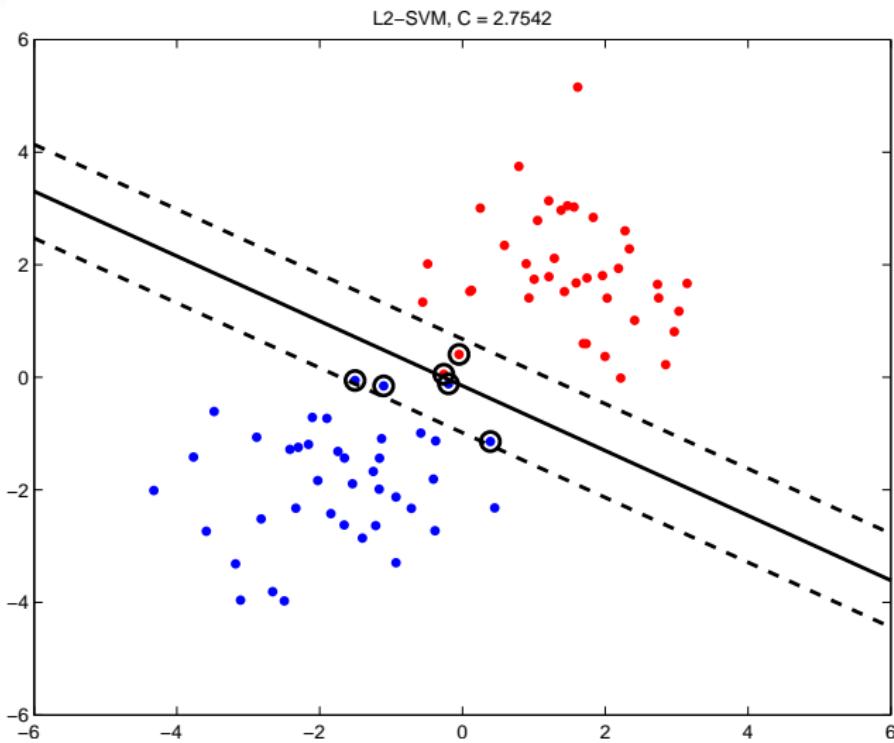
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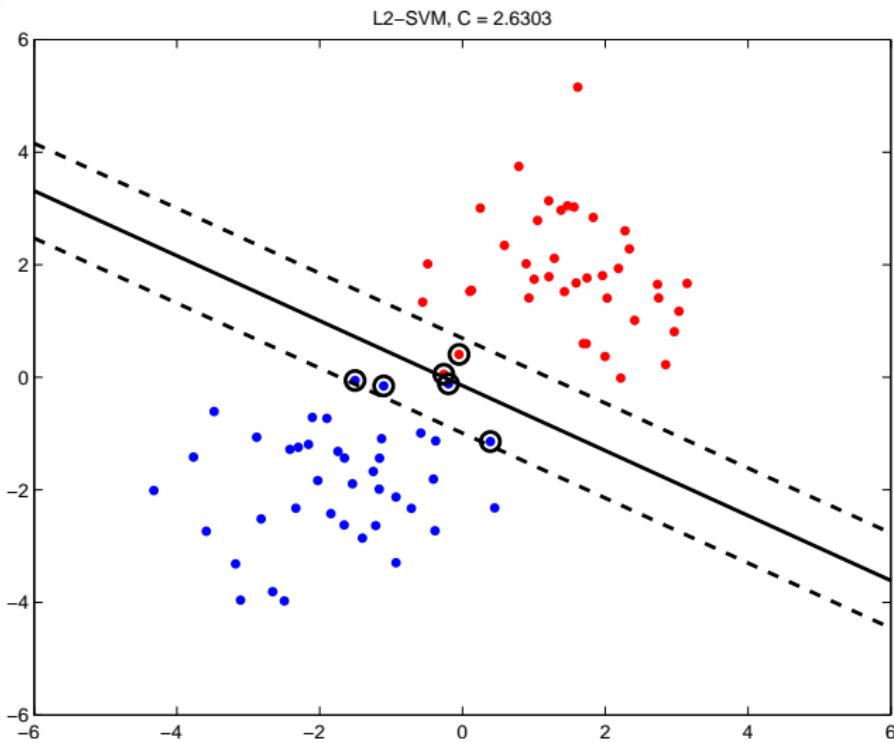
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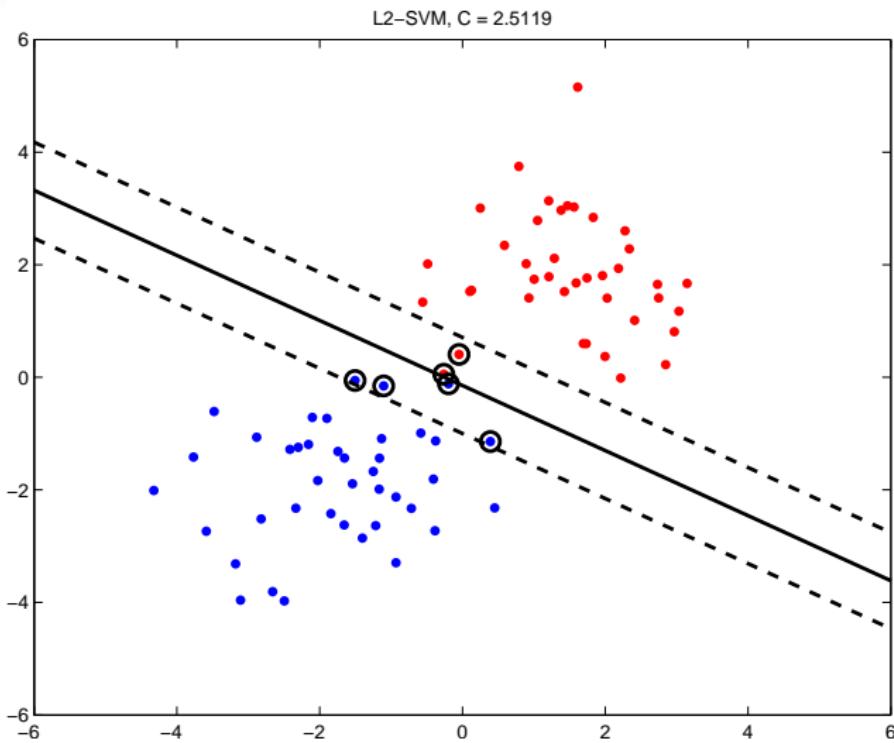
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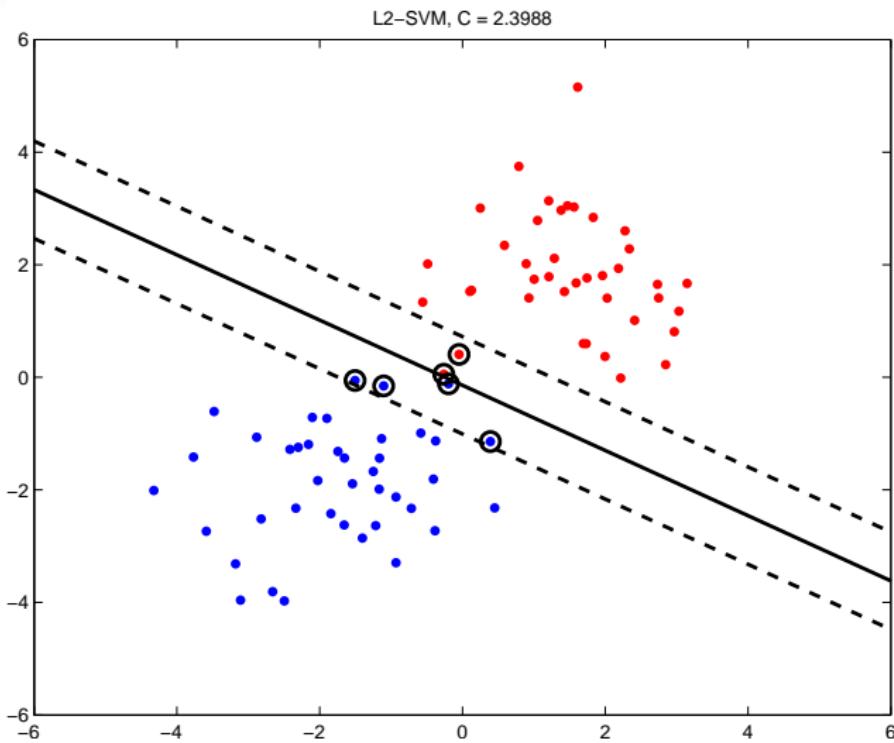
# L2-SVM Example



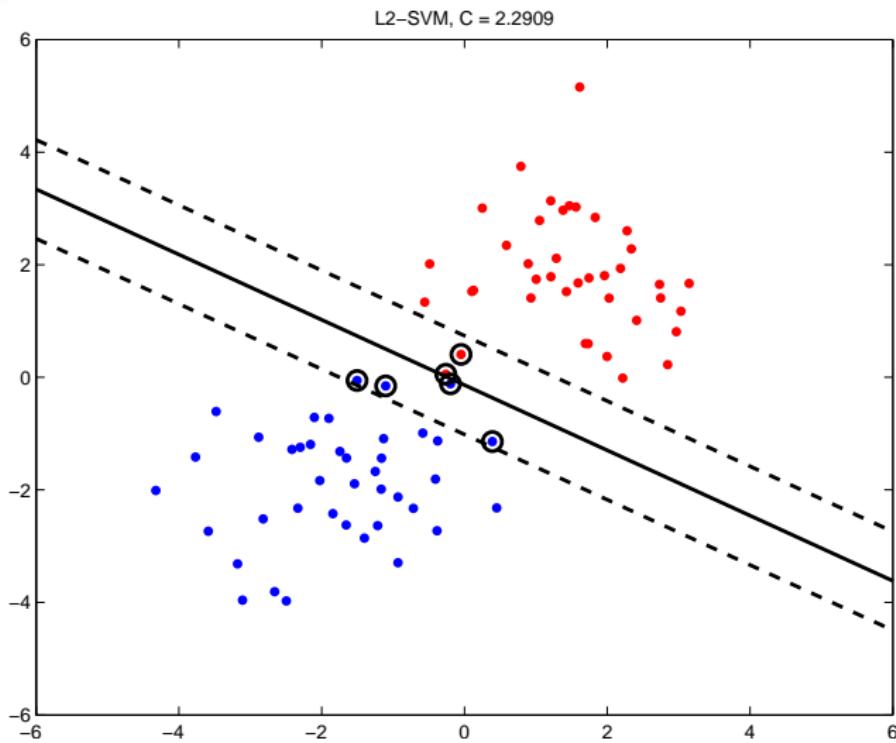
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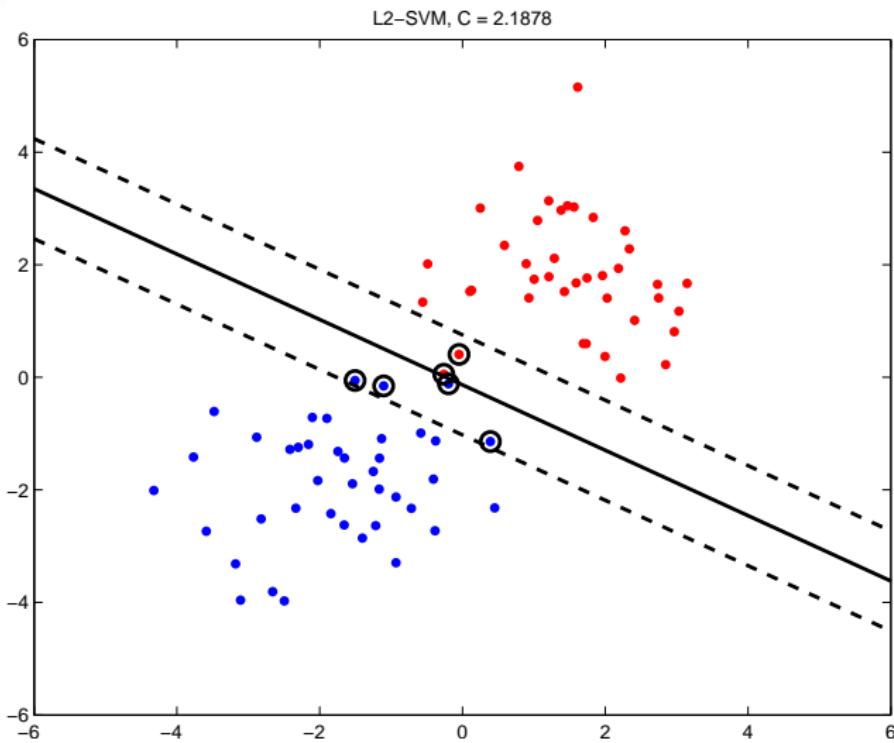
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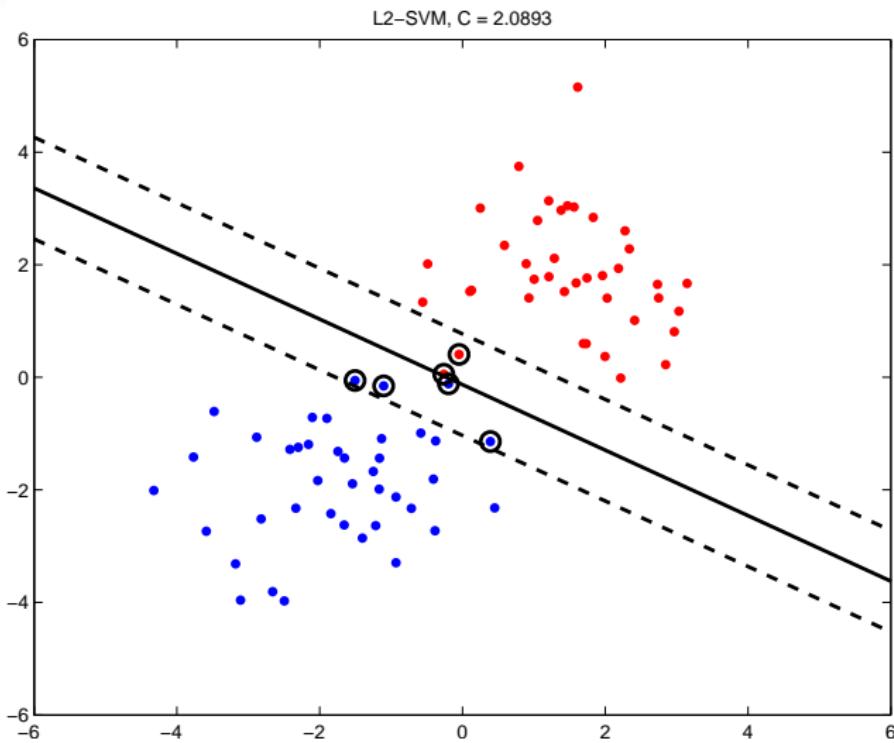
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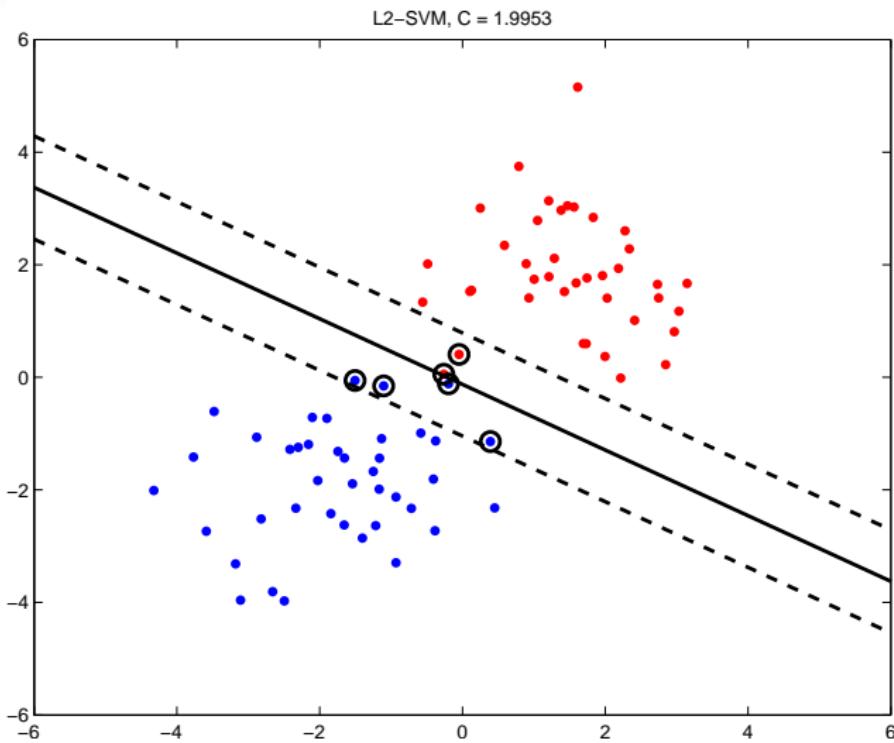
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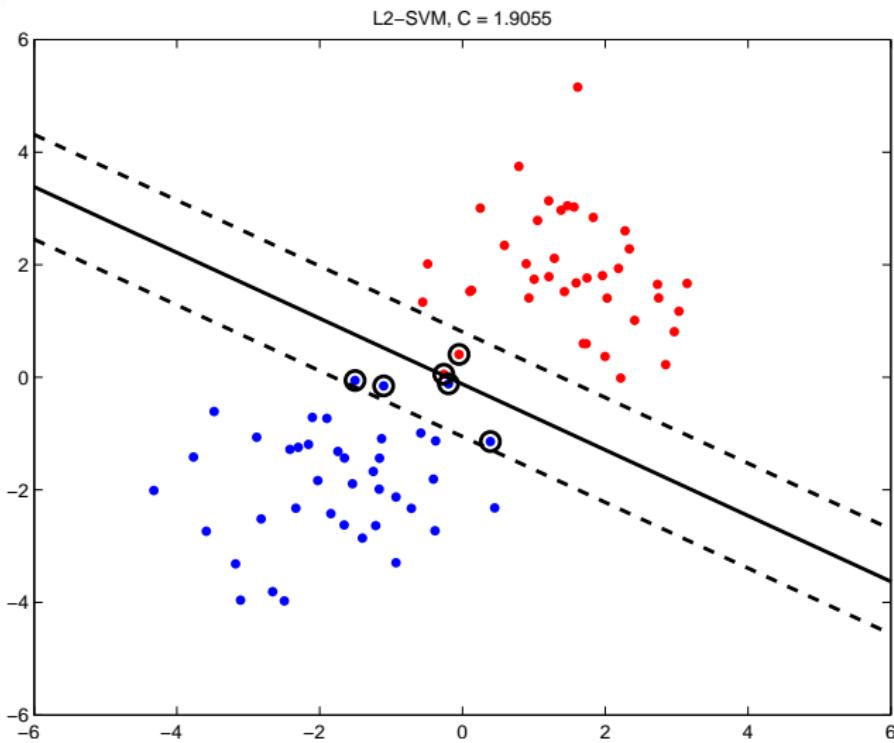
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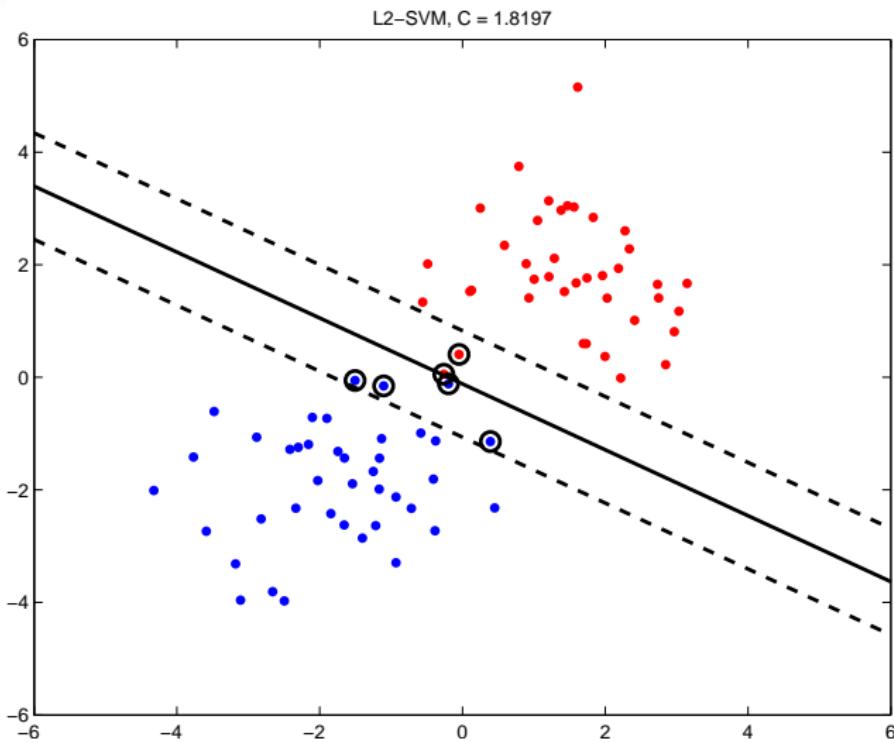
# L2-SVM Example



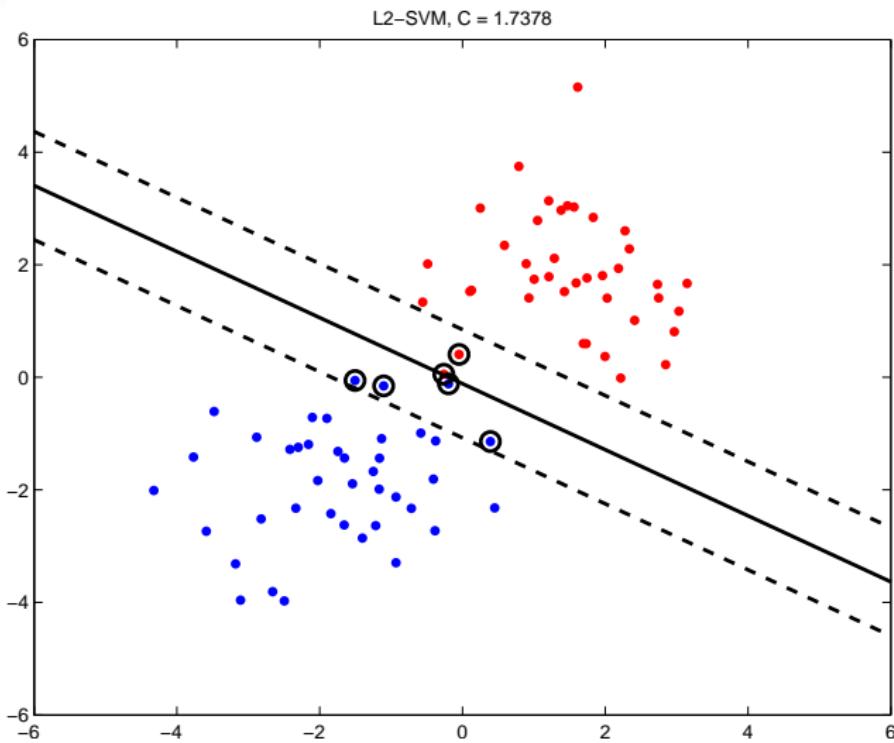
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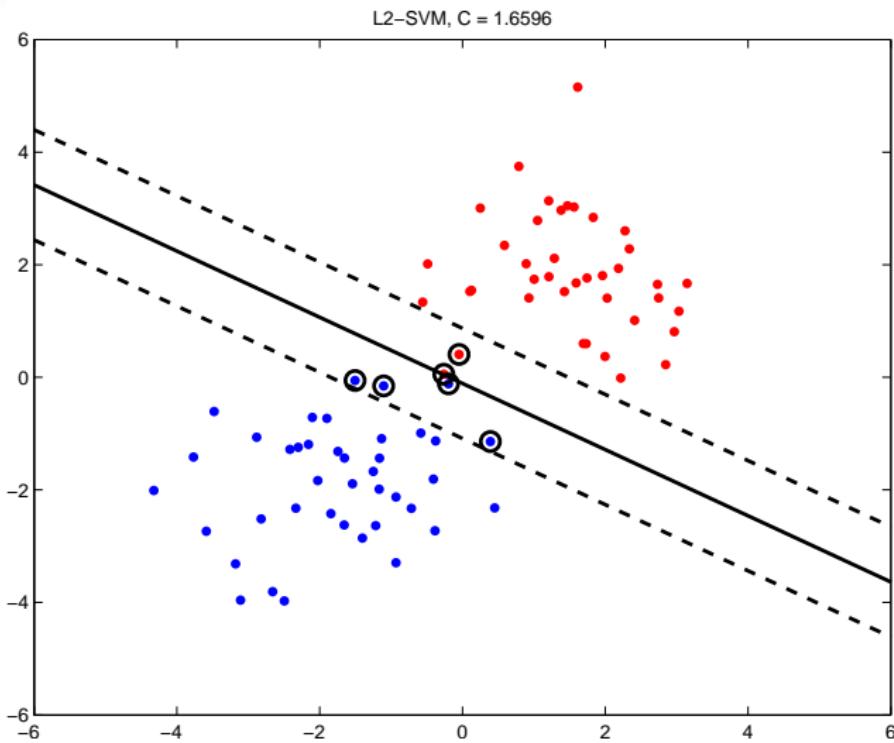
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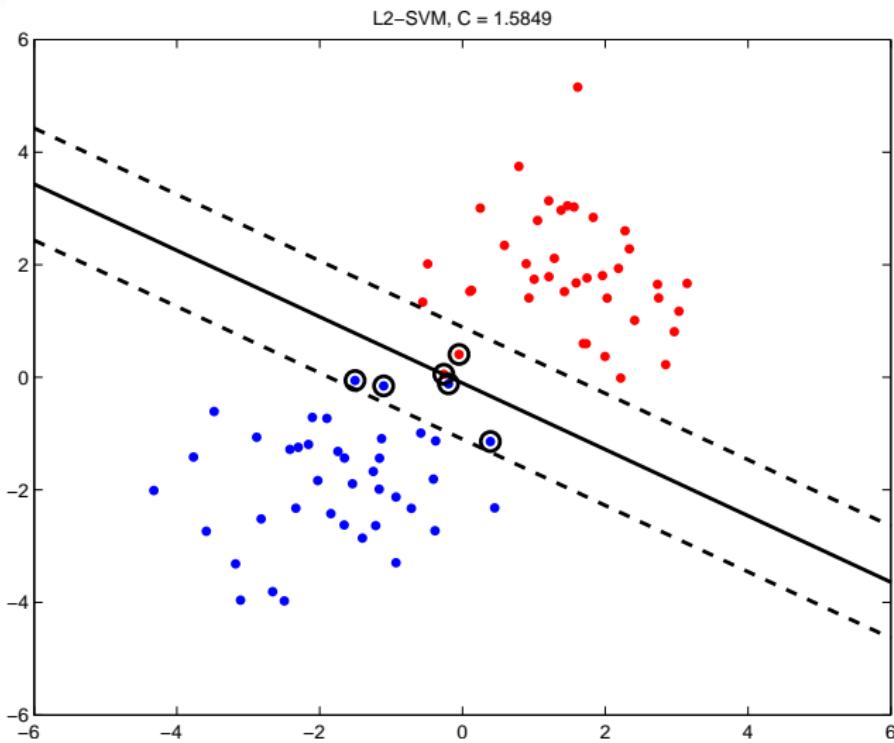
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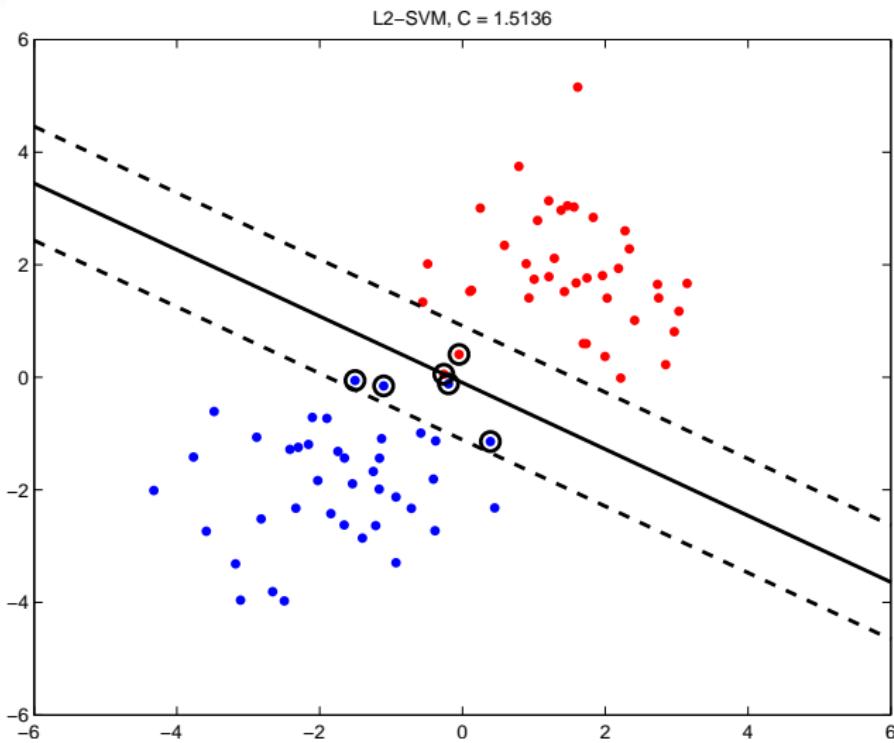
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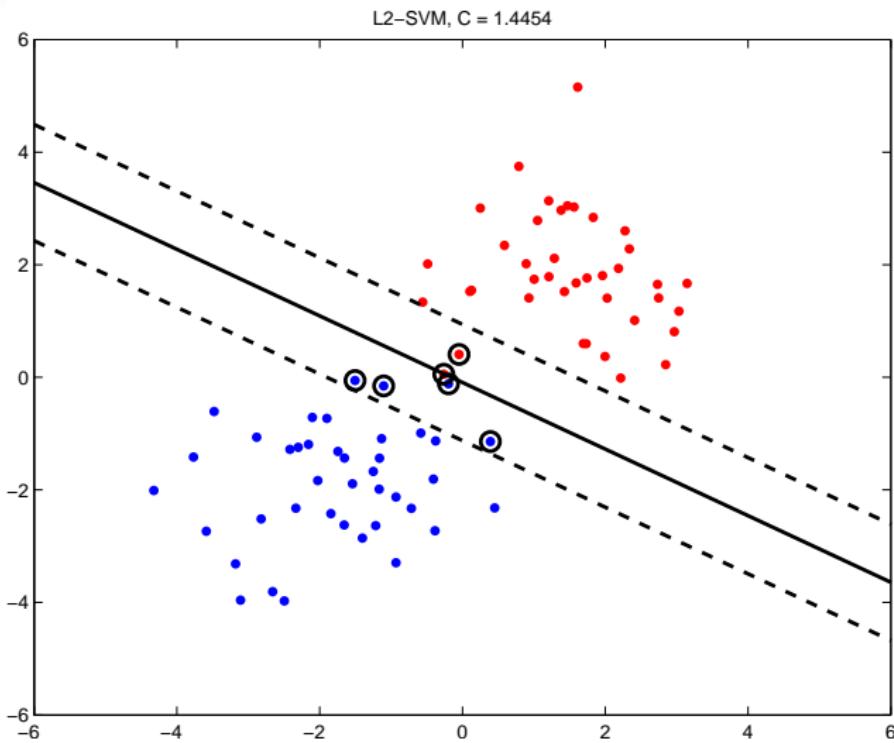
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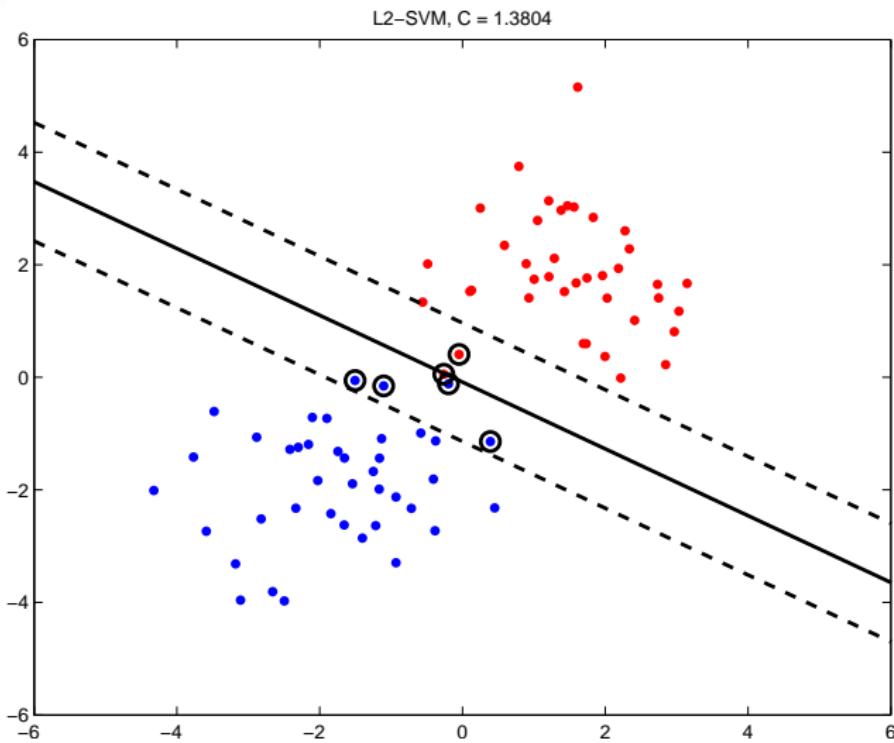
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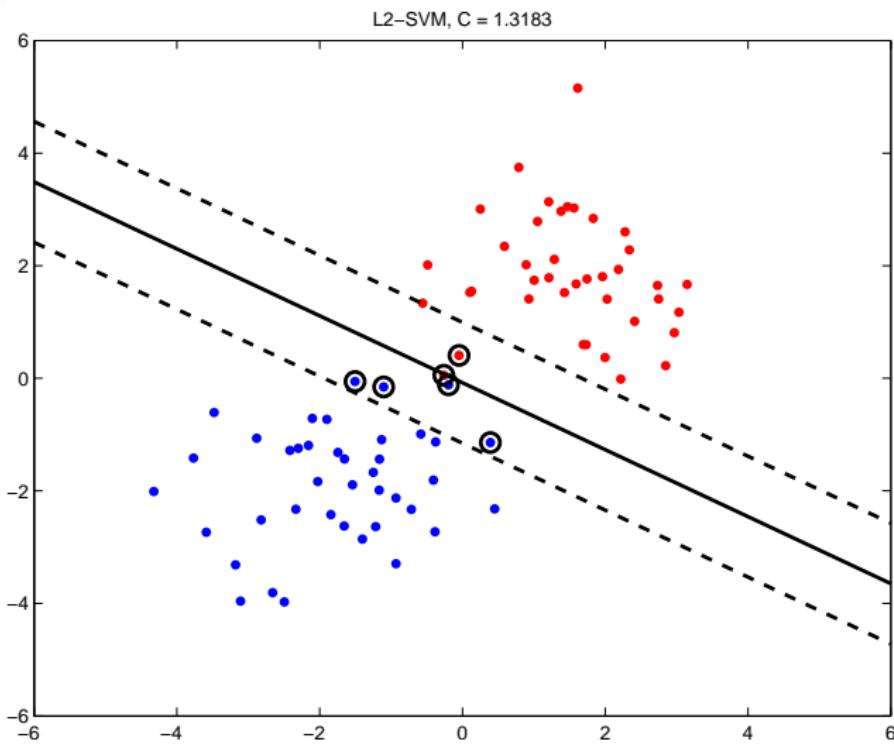
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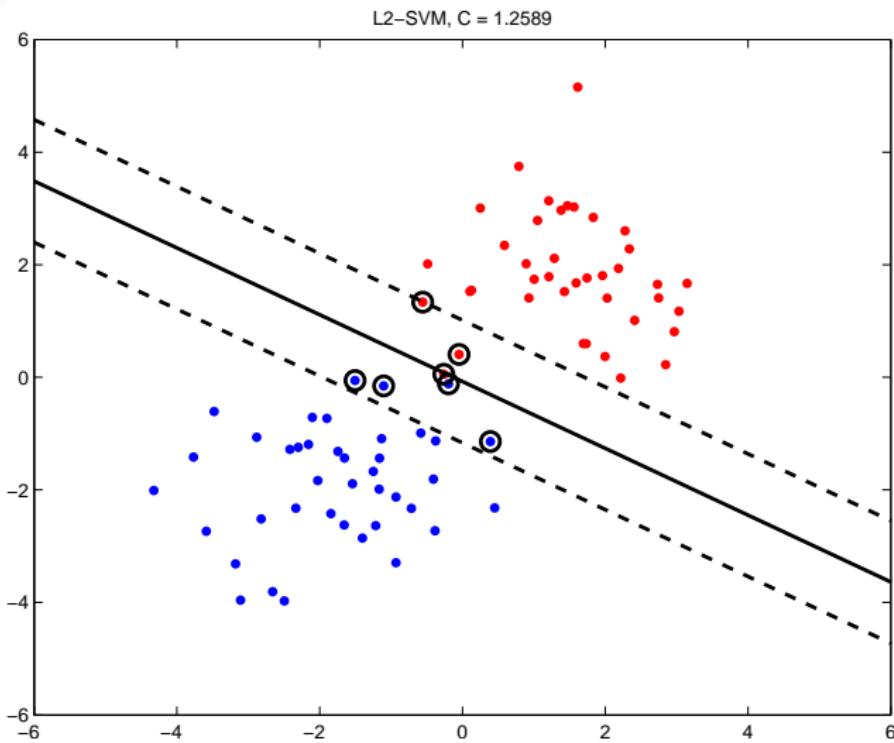
# L2-SVM Example



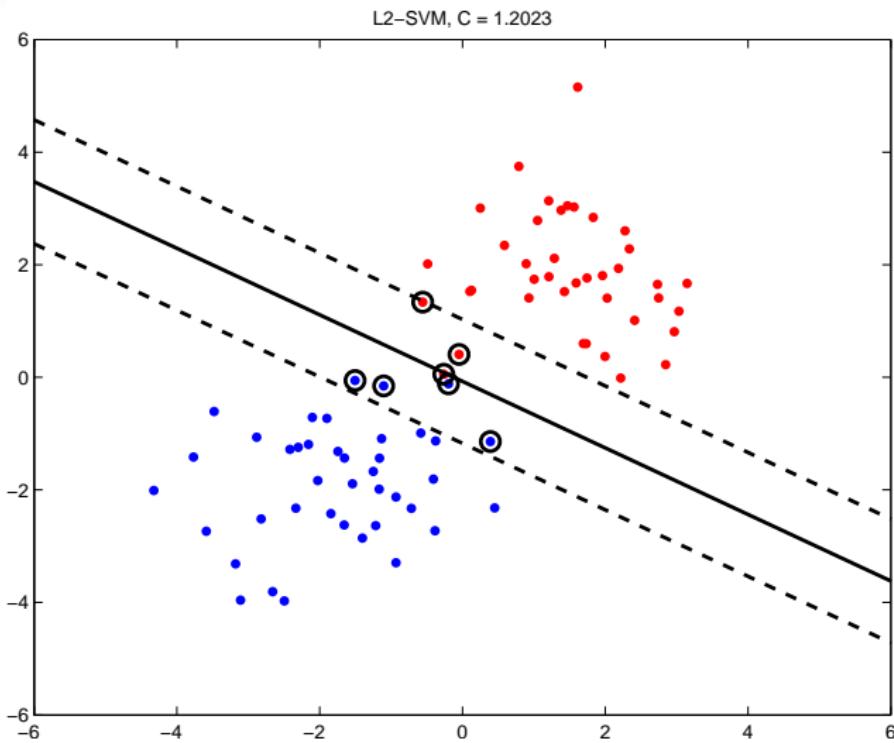
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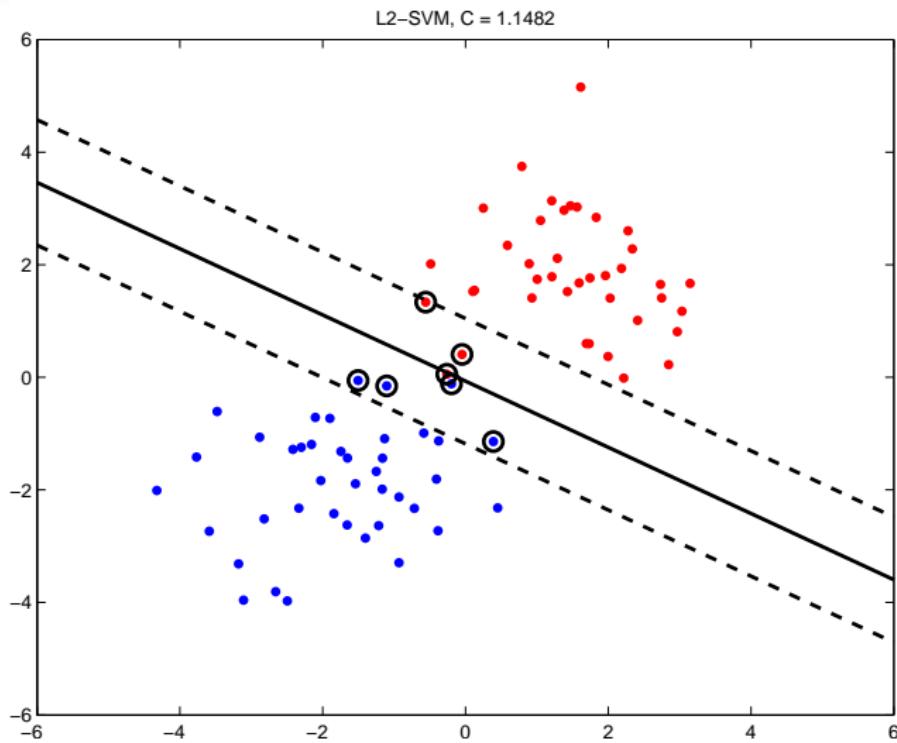
# L2-SVM Example



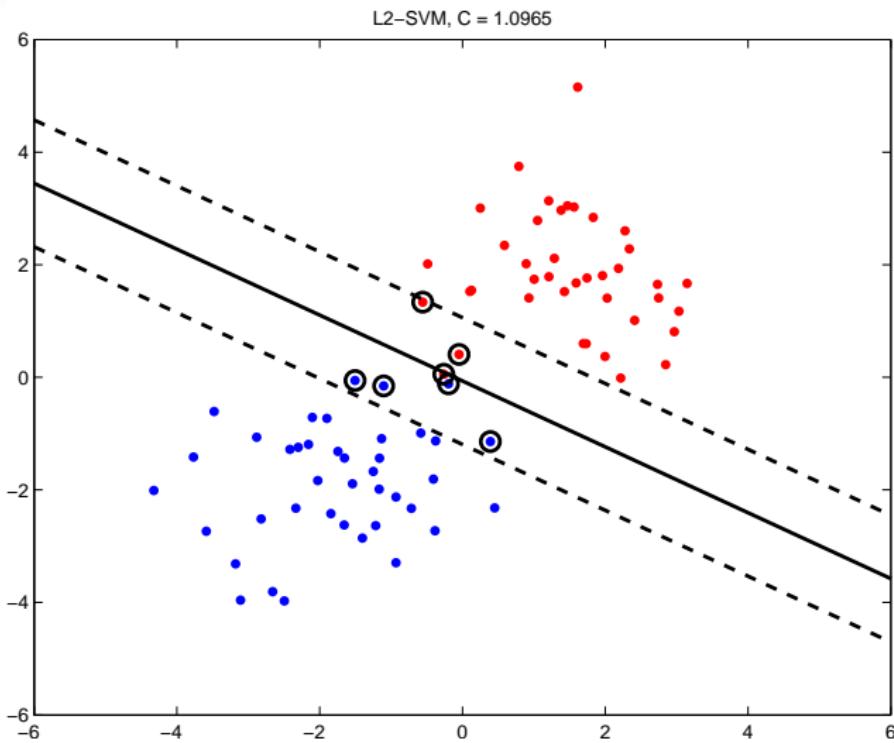
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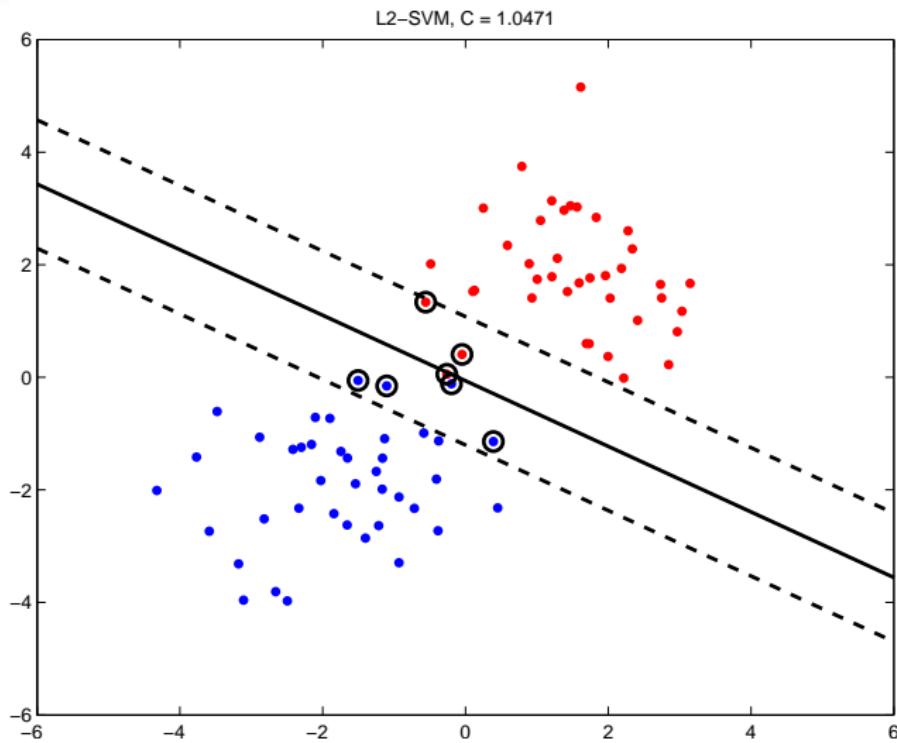
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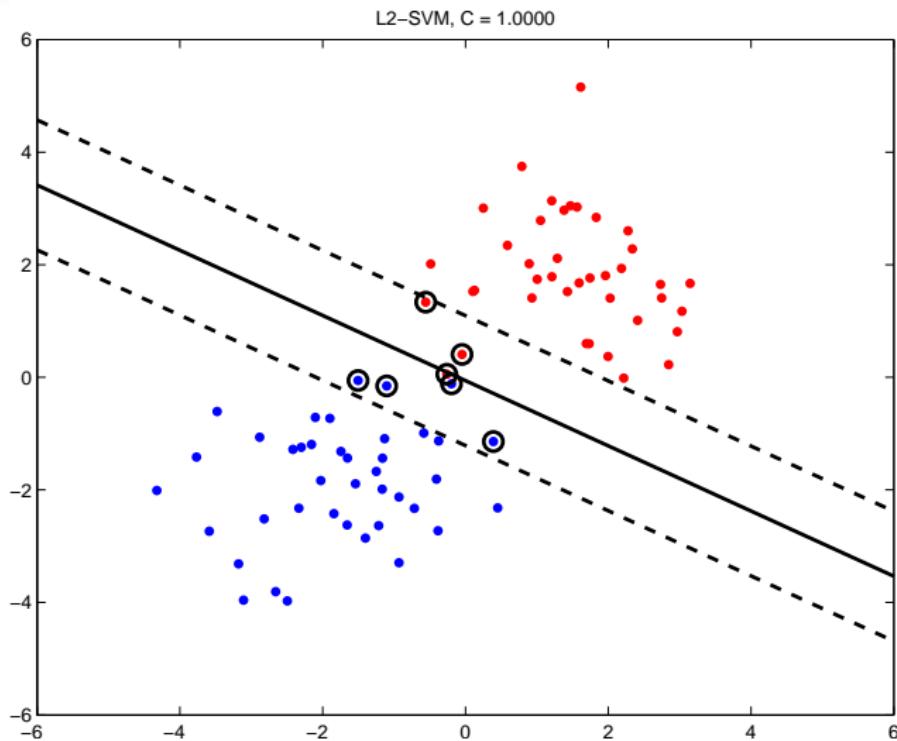
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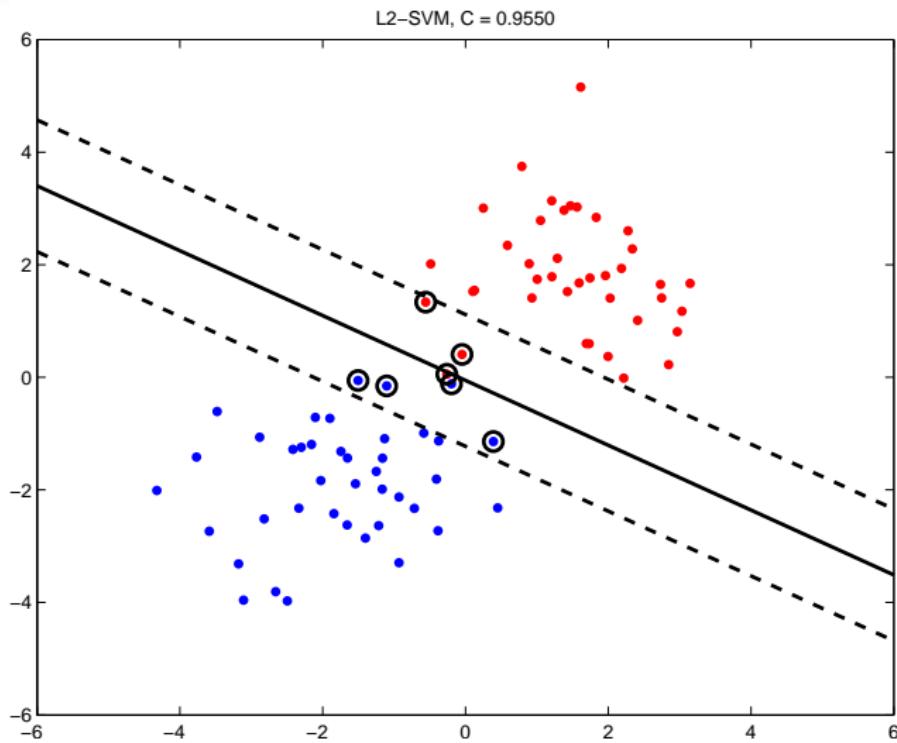
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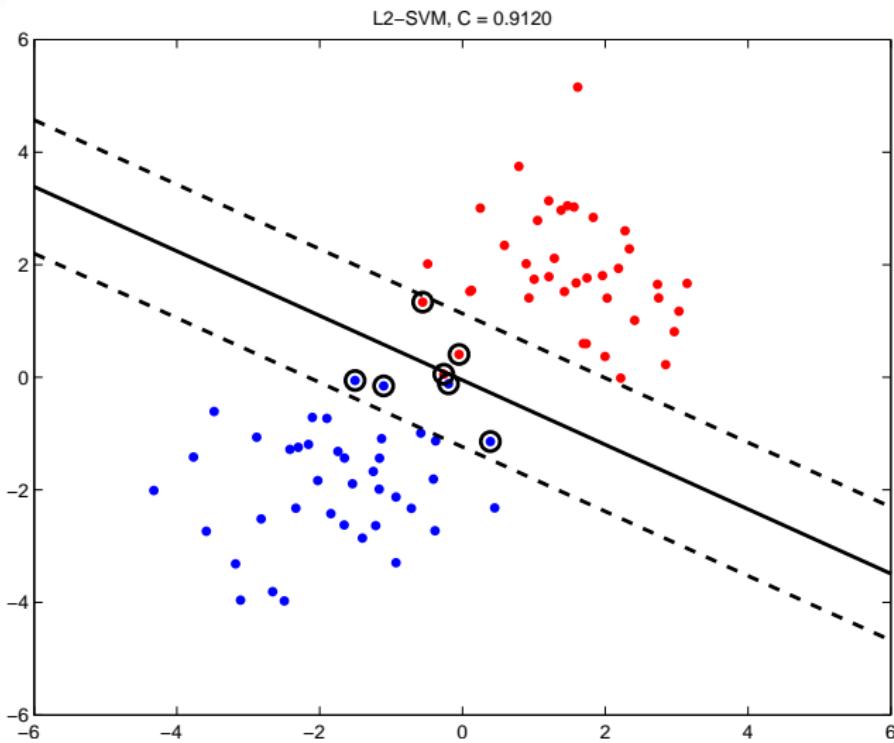
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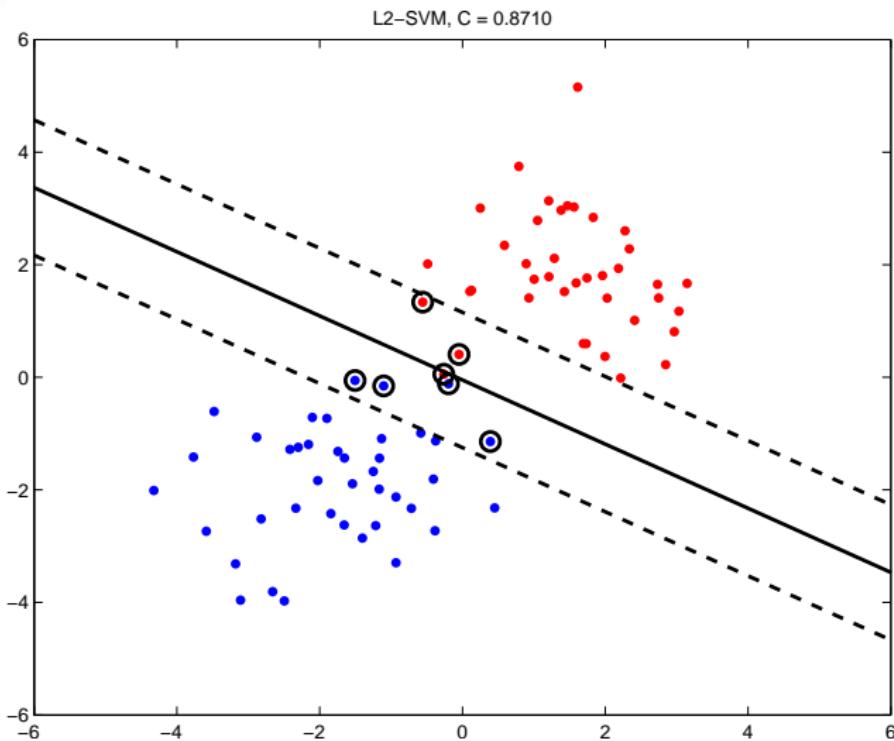
# L2-SVM Example



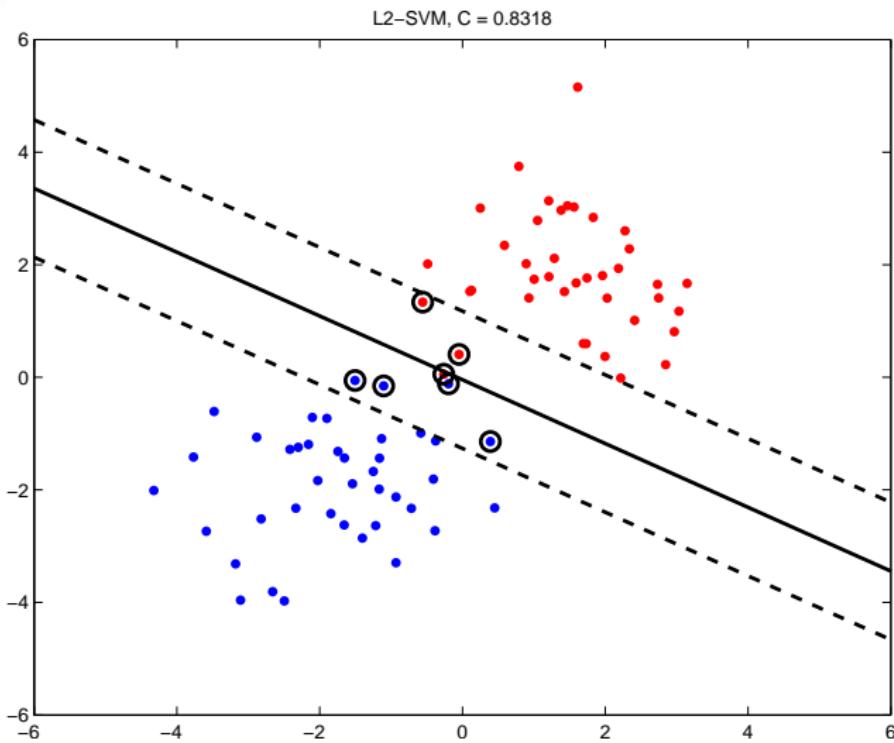
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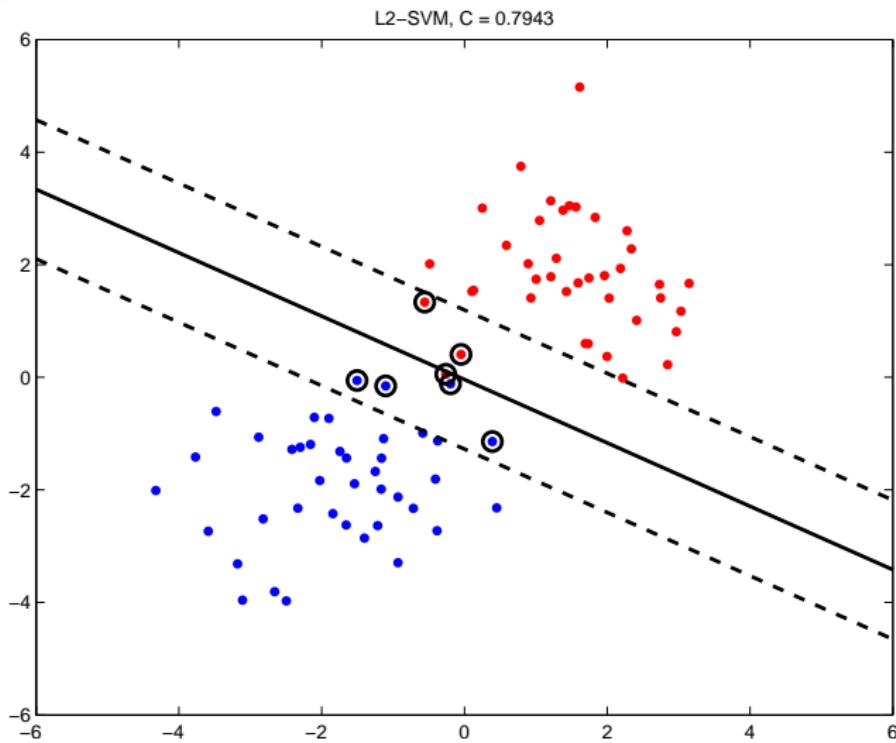
# L2-SVM Example



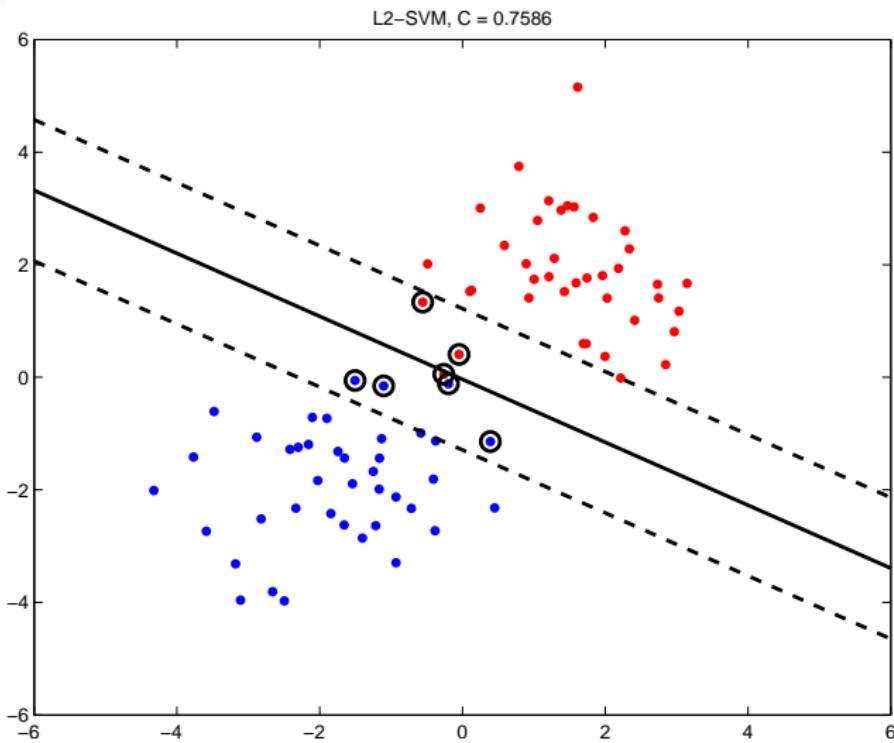
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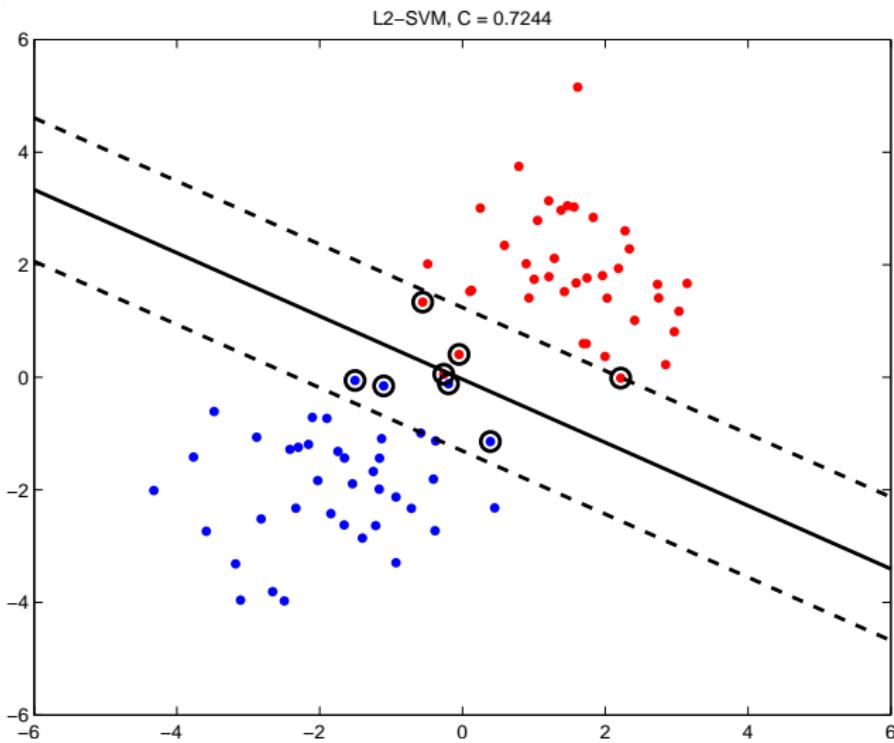
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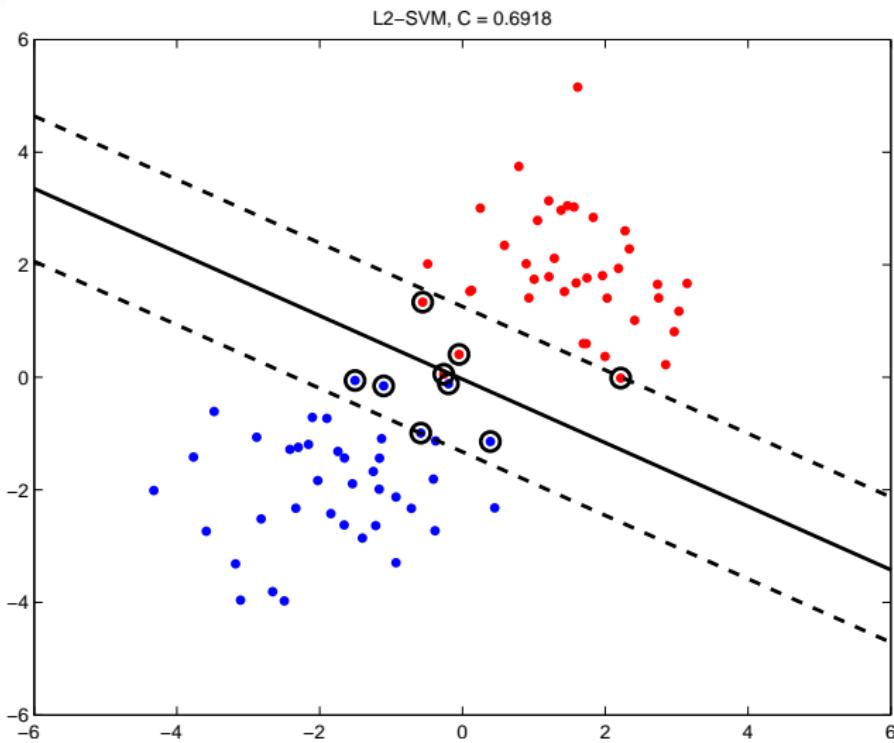
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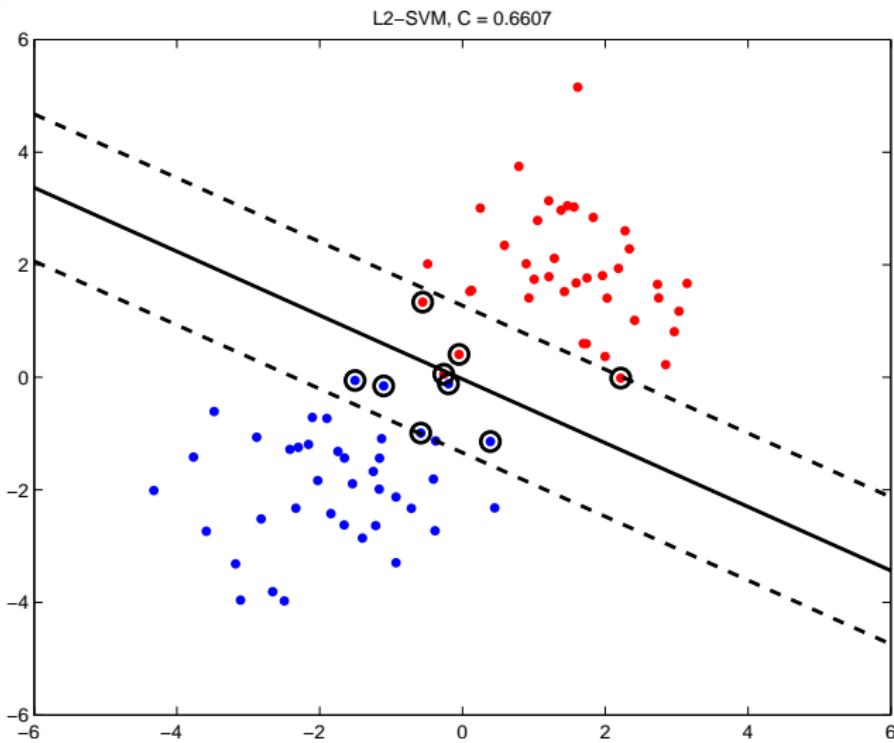
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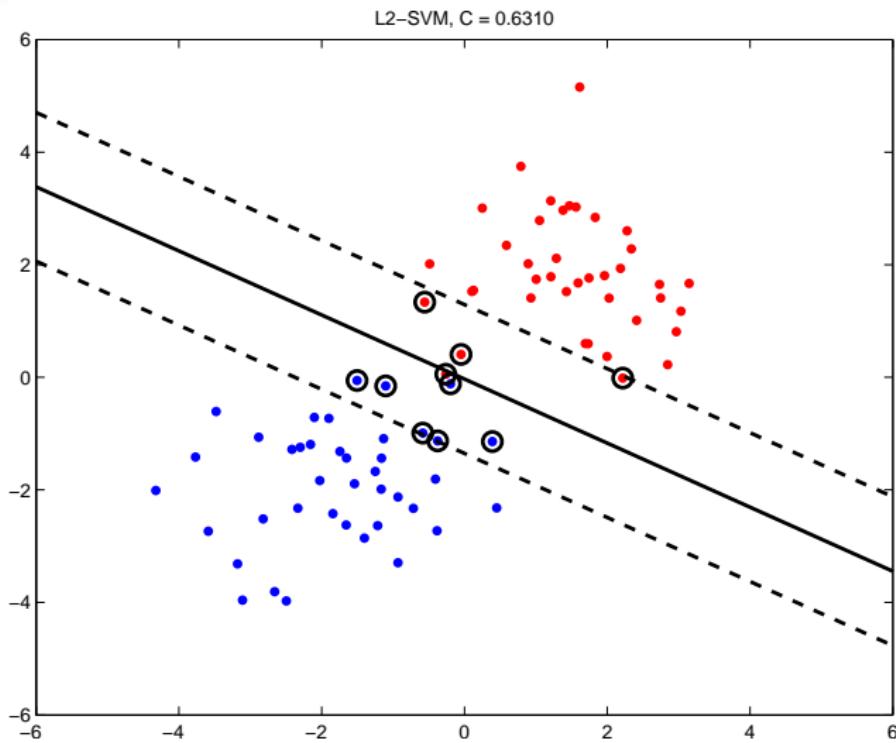
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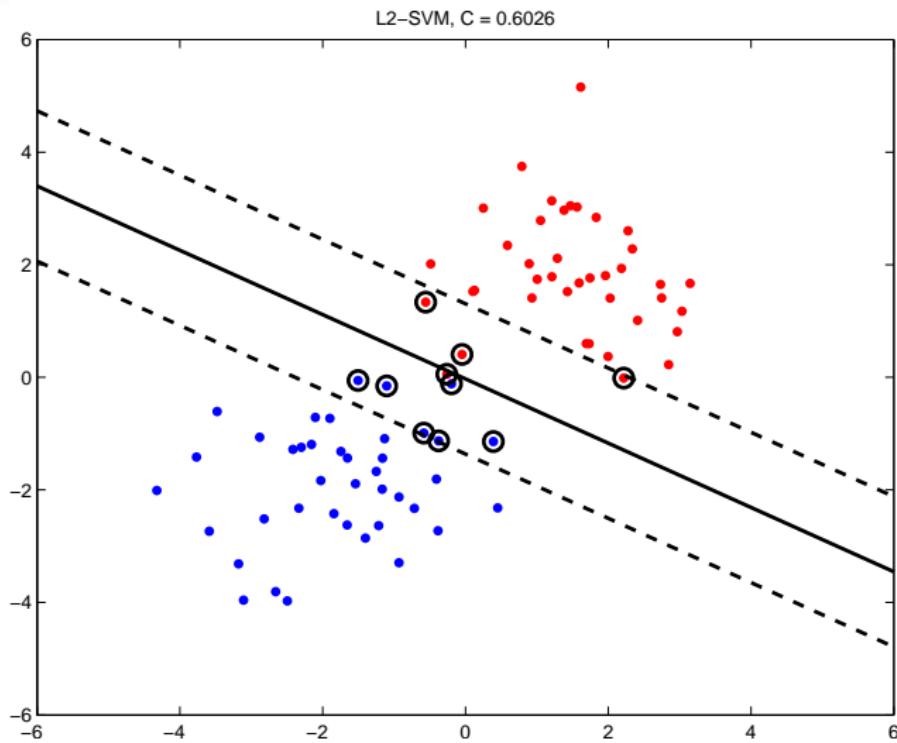
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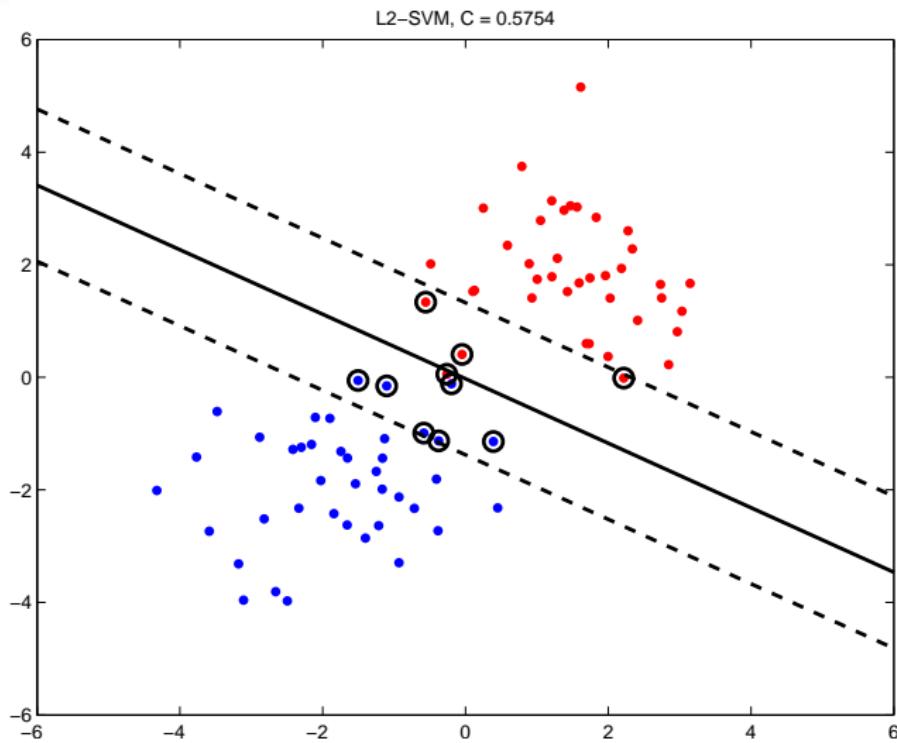
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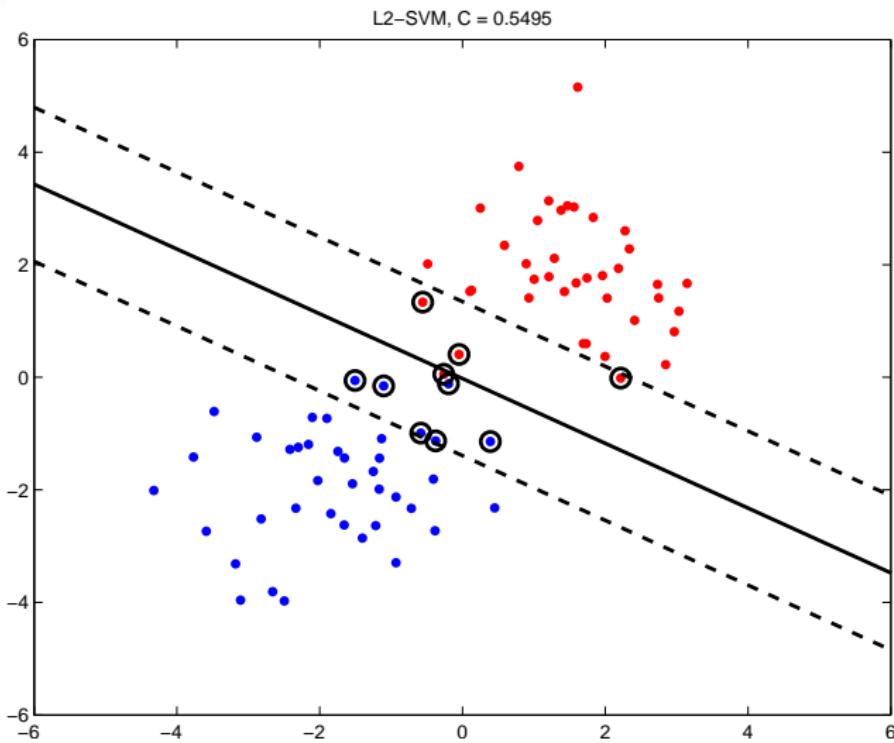
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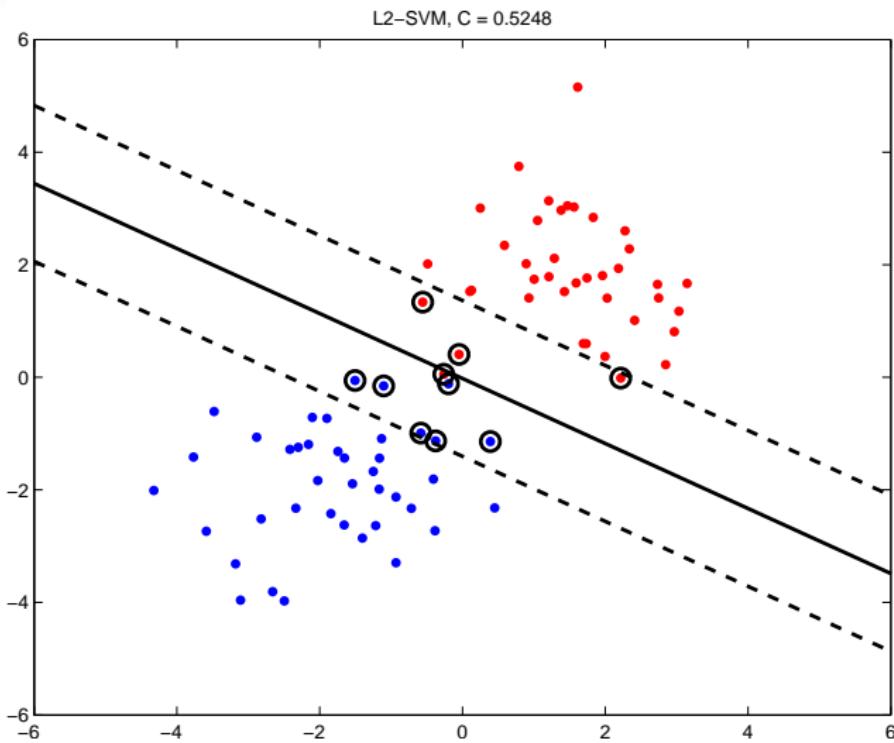
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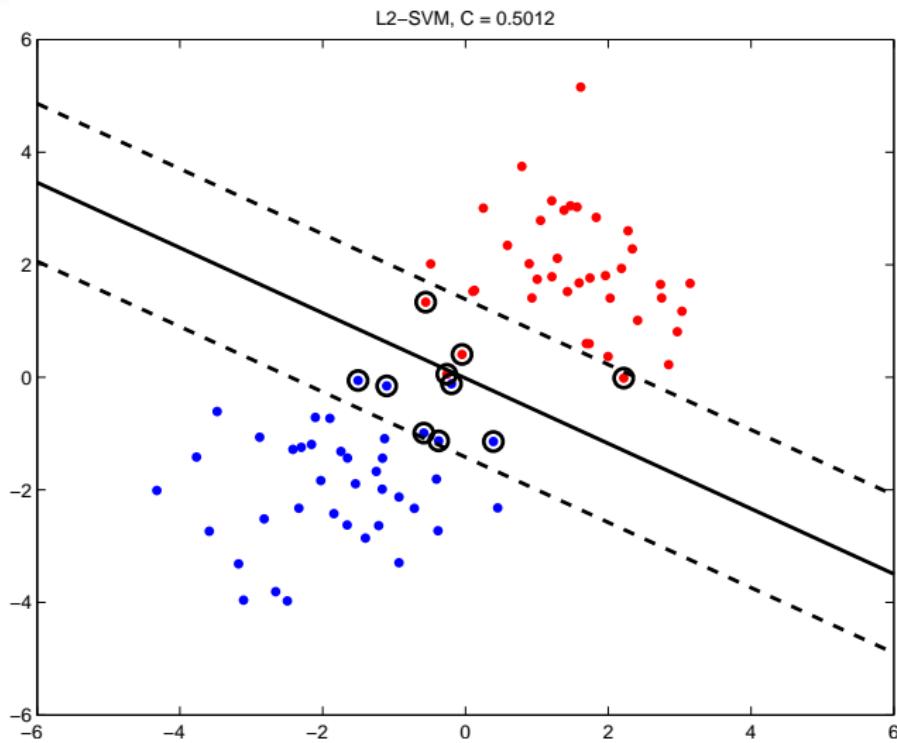
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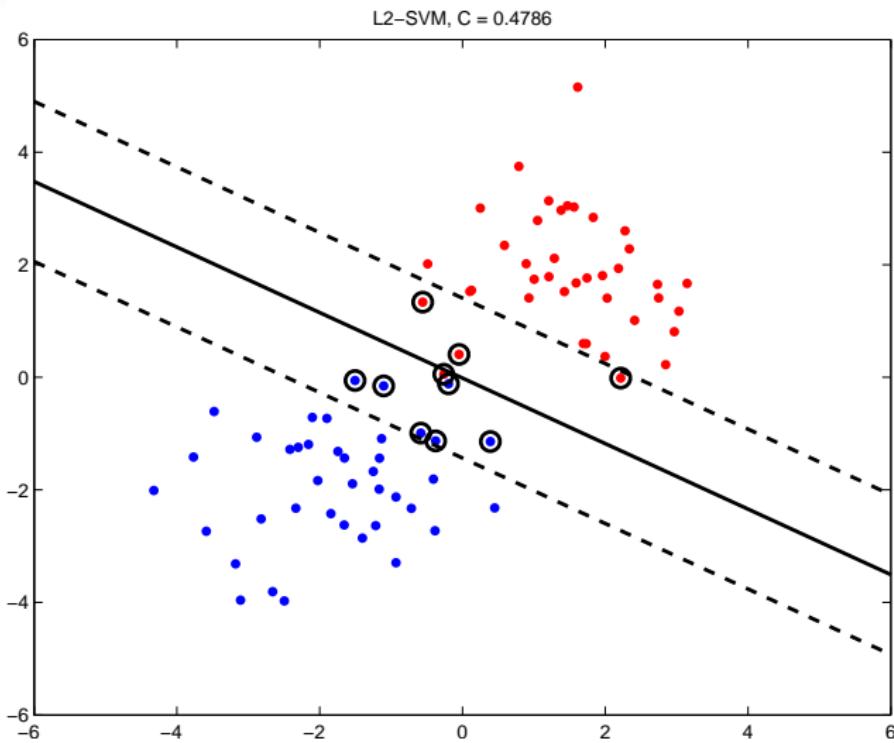
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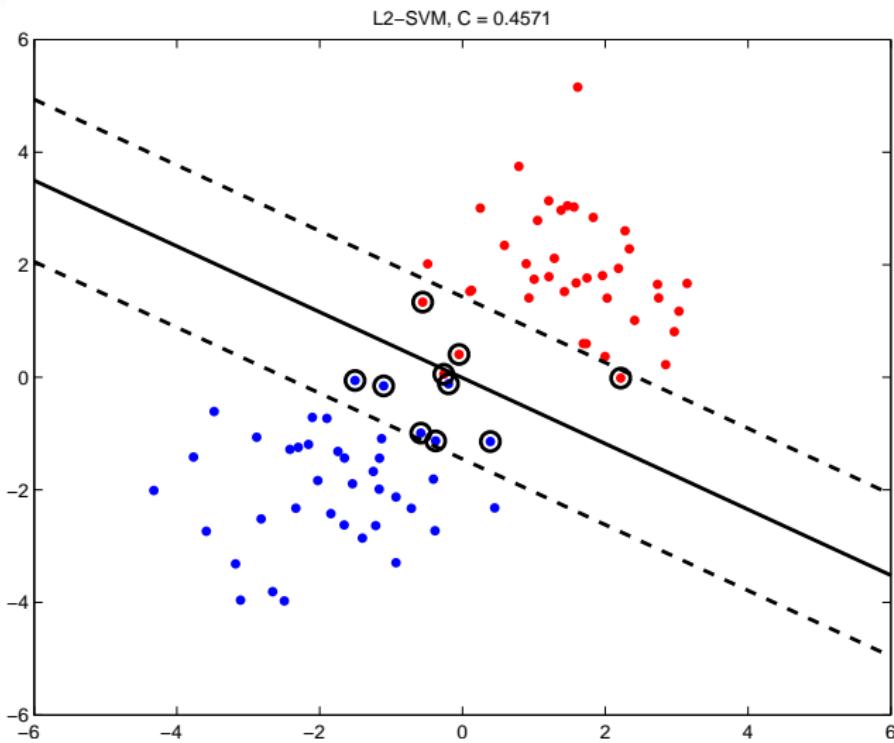
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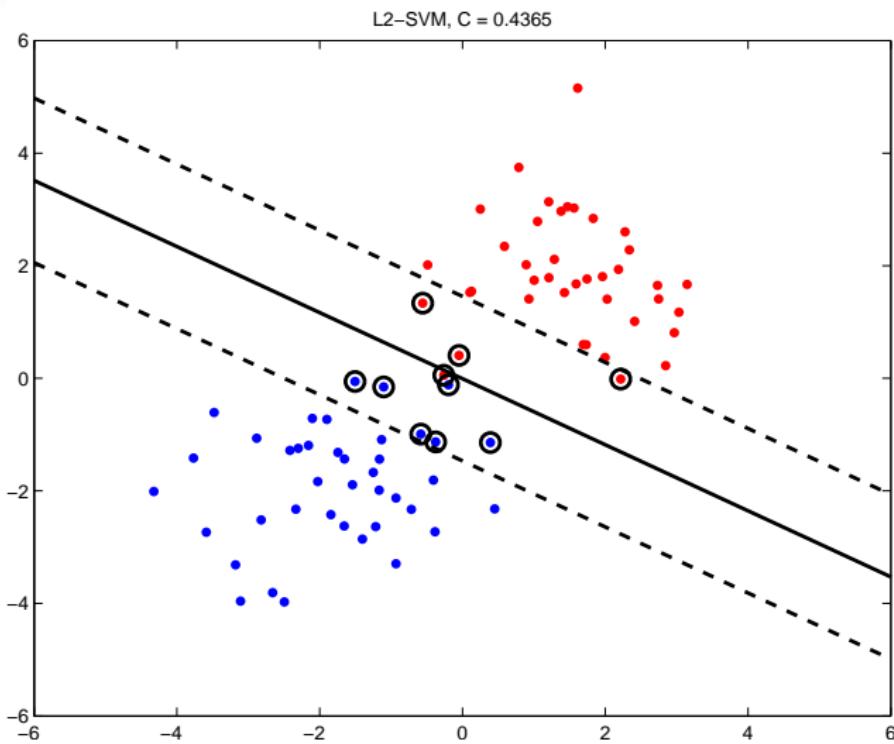
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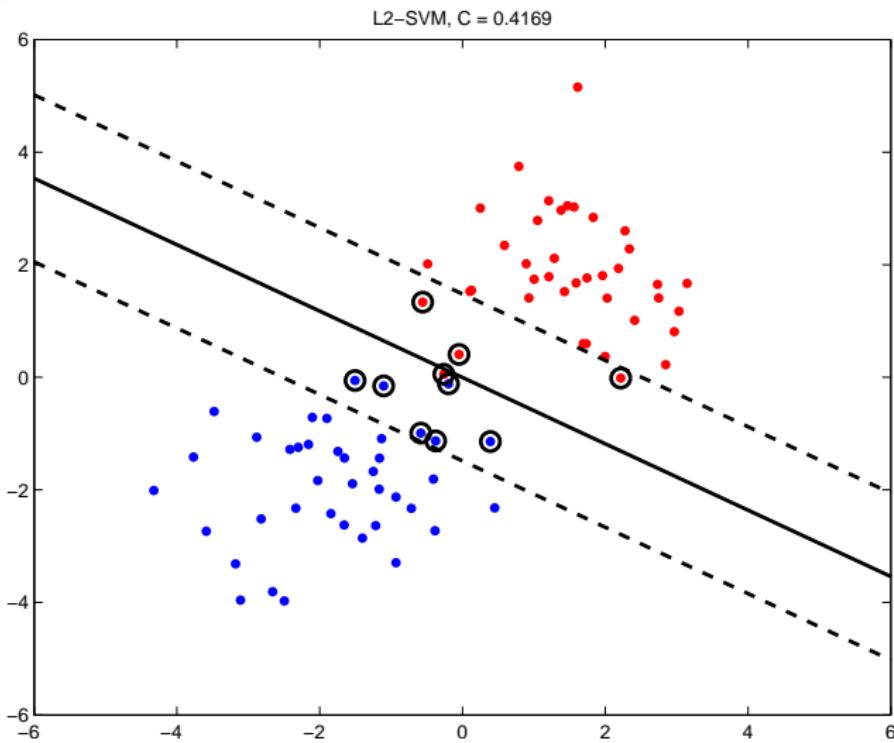
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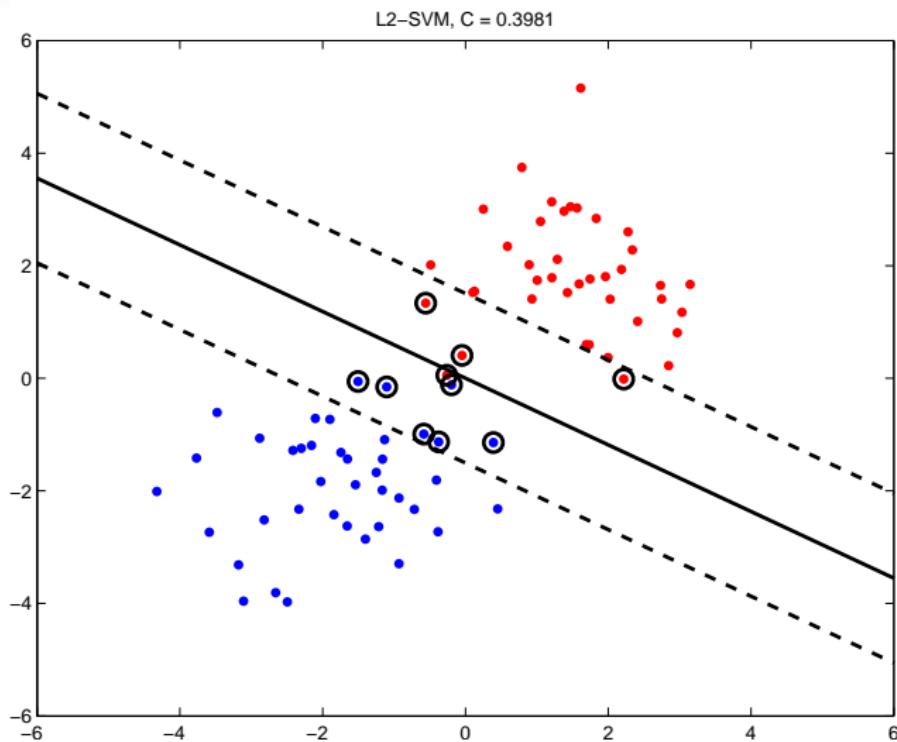
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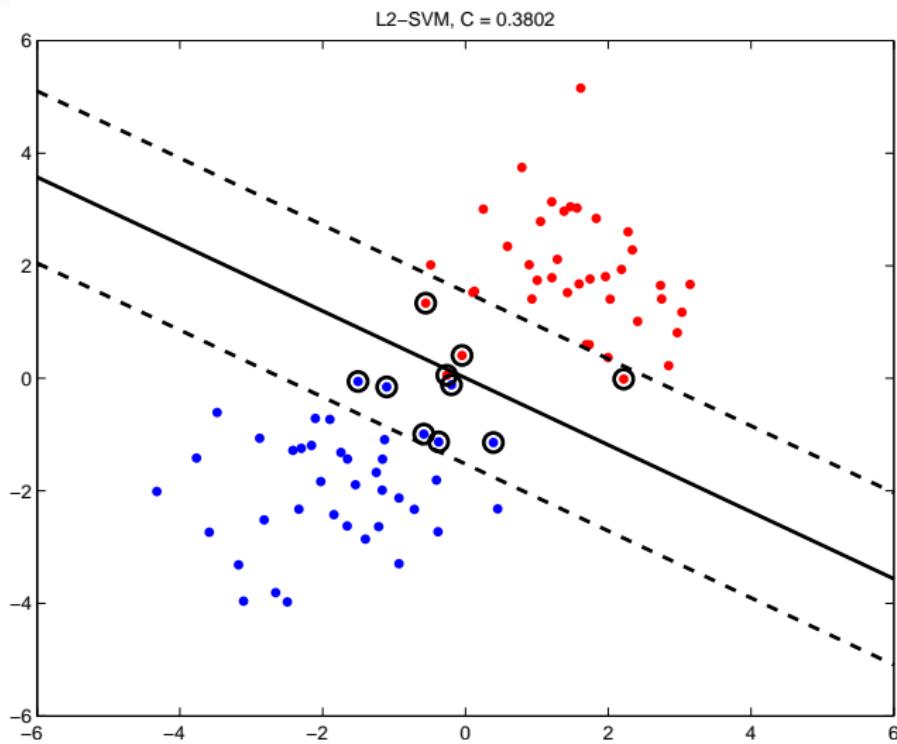
# L2-SVM Example



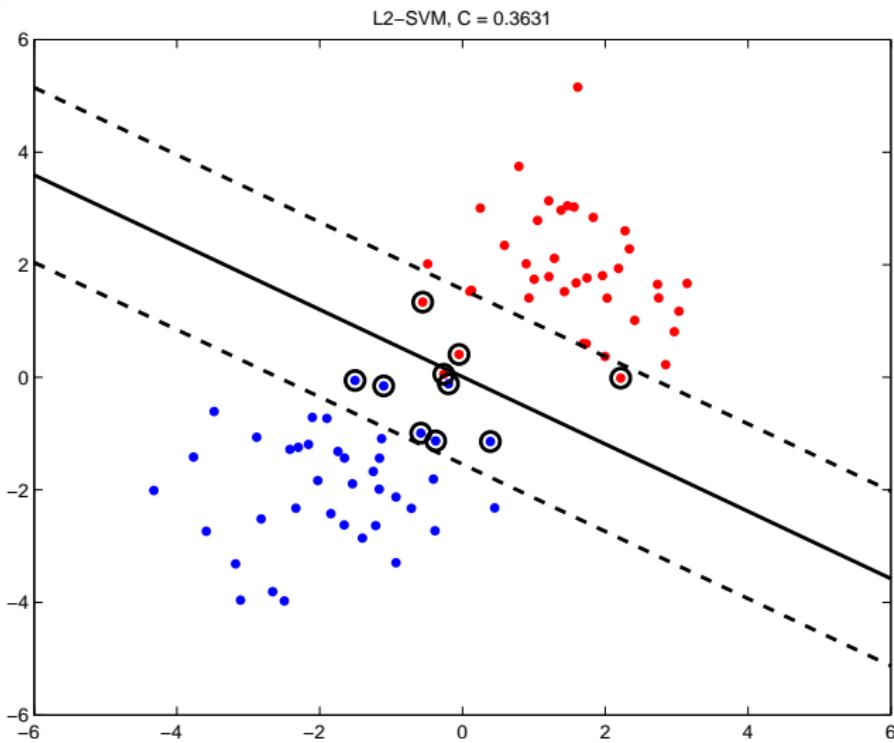
## L2-SVM Example



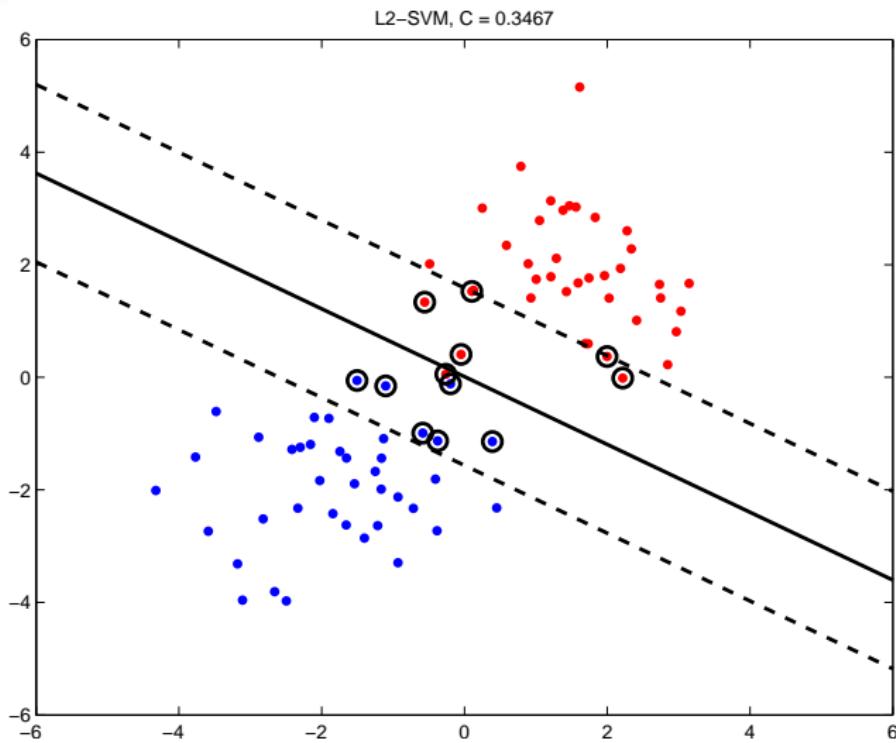
## L2-SVM Example



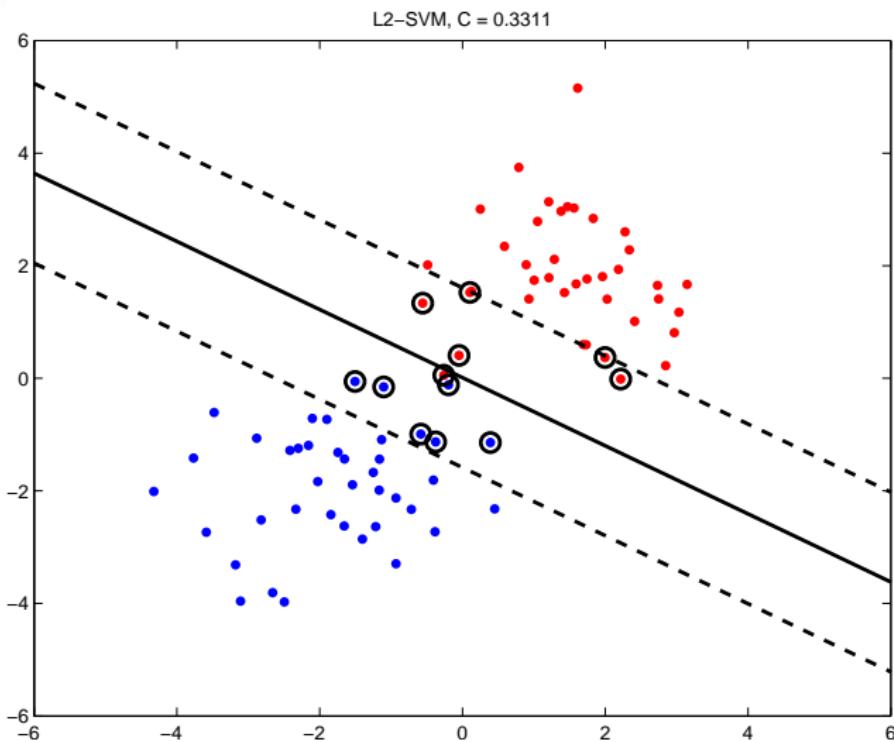
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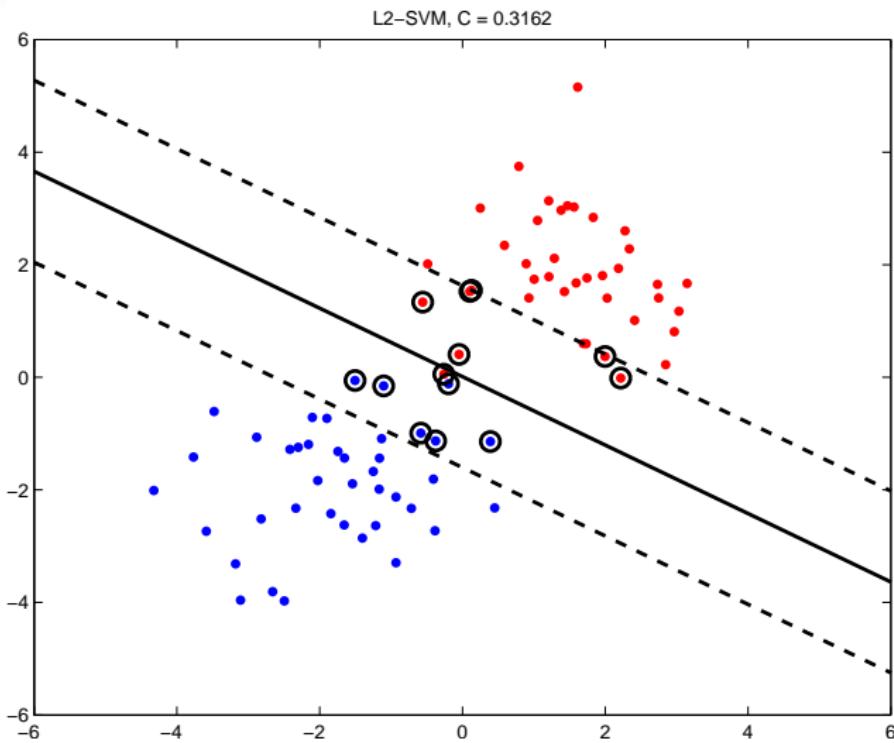
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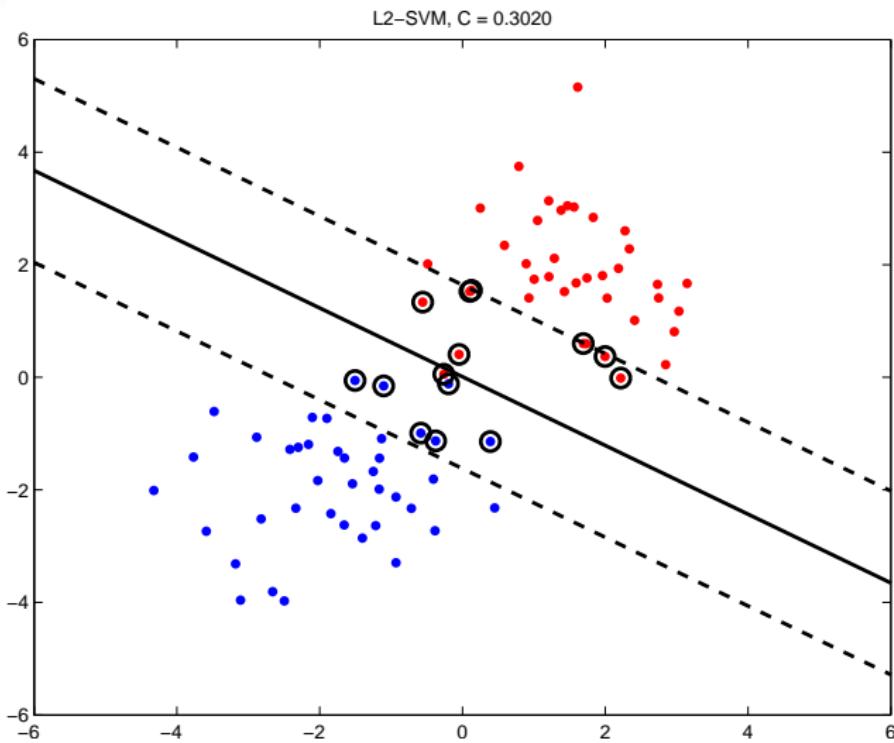
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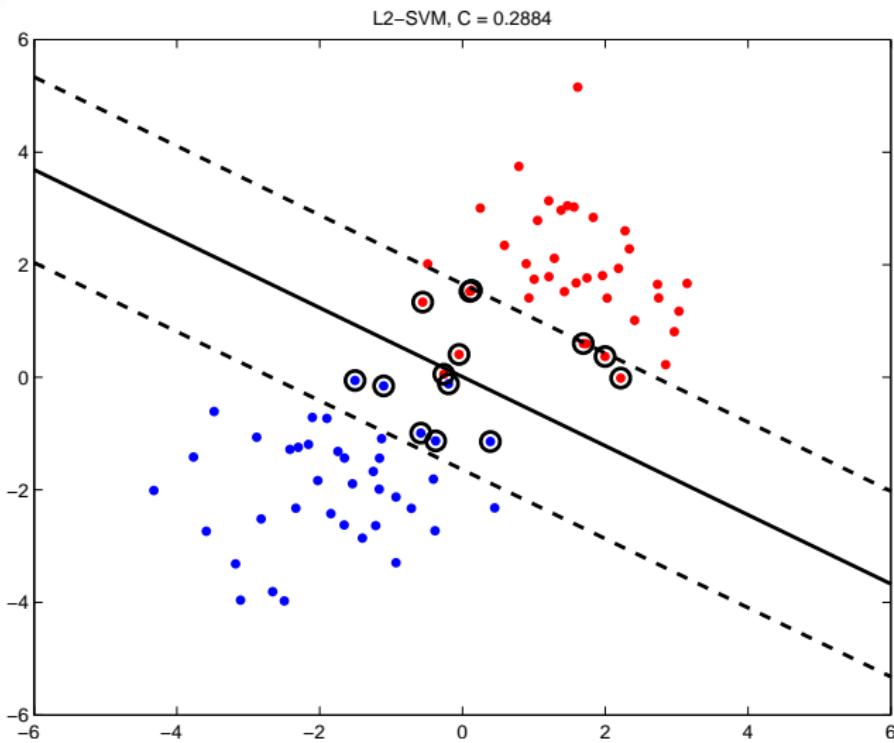
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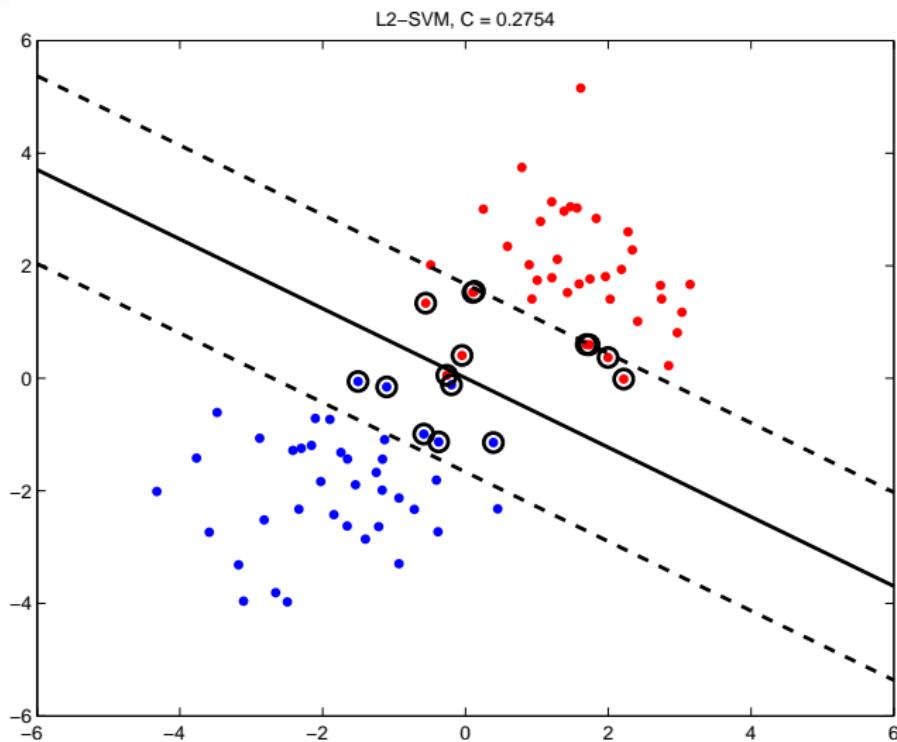
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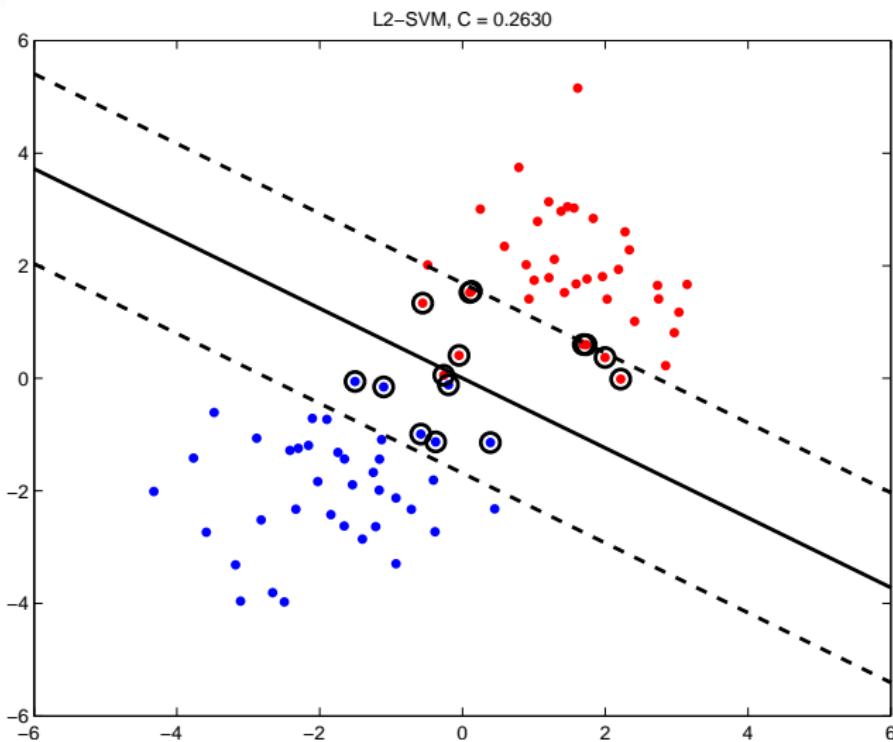
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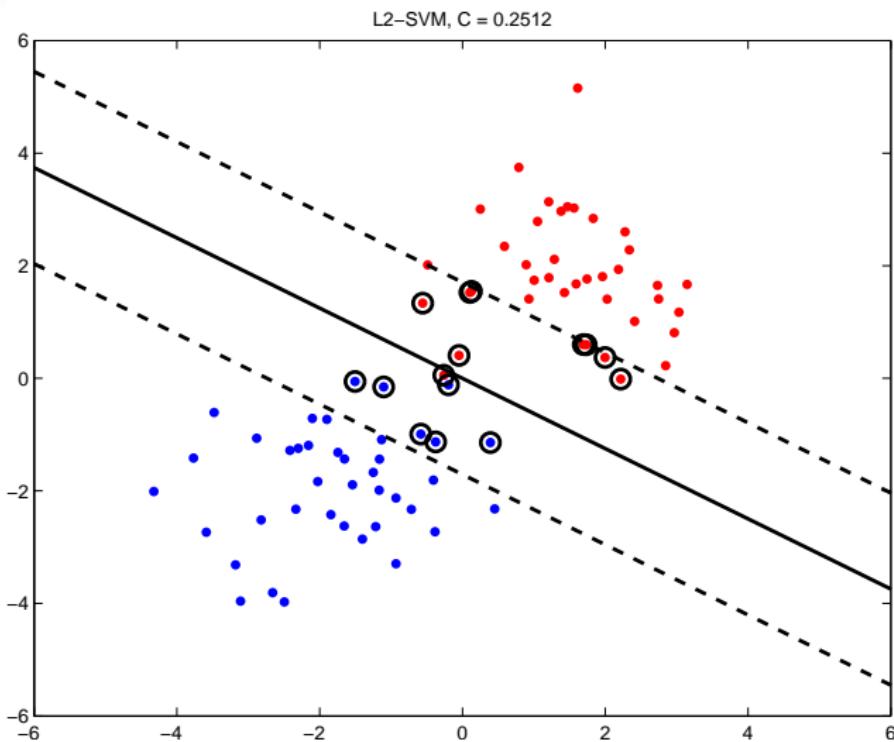
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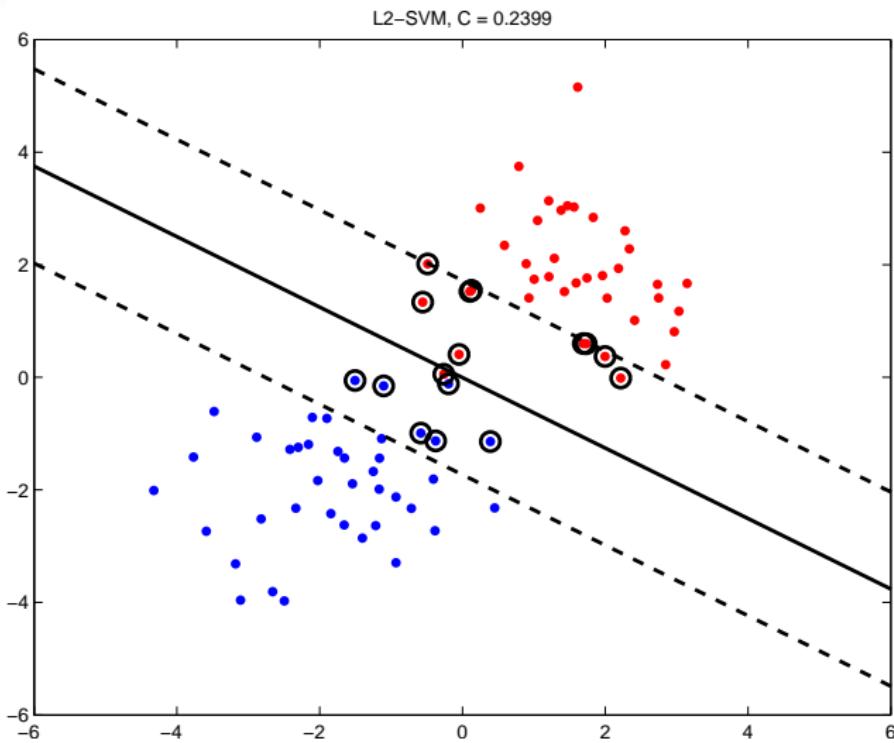
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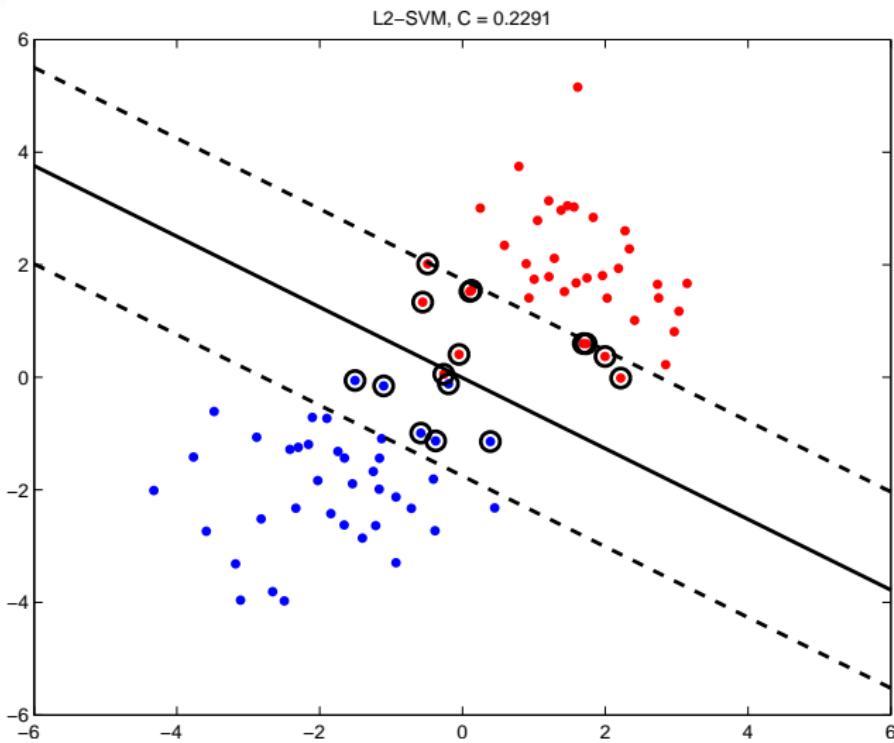
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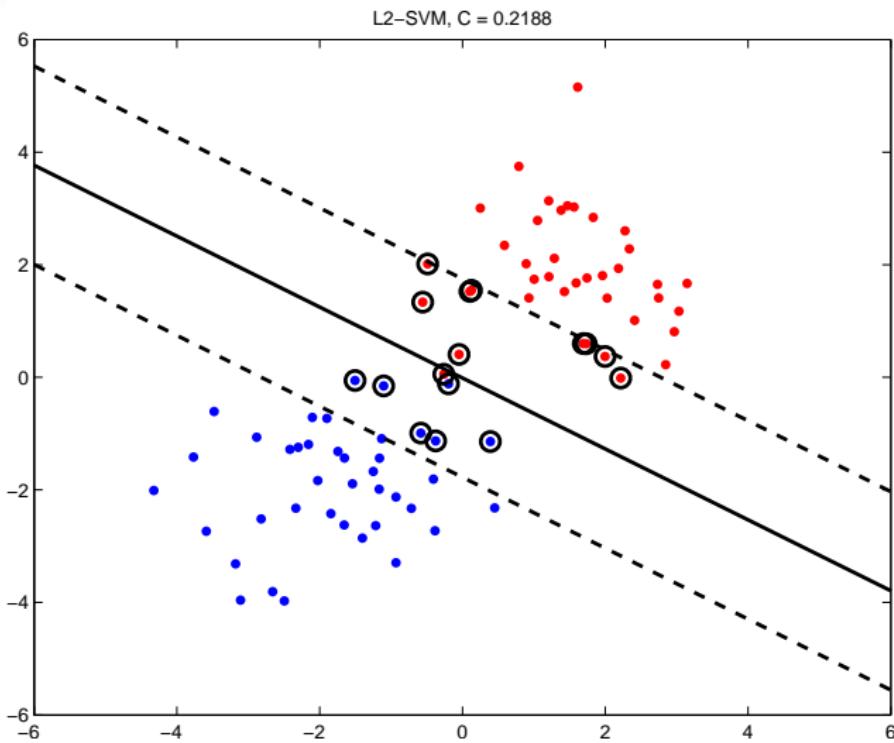
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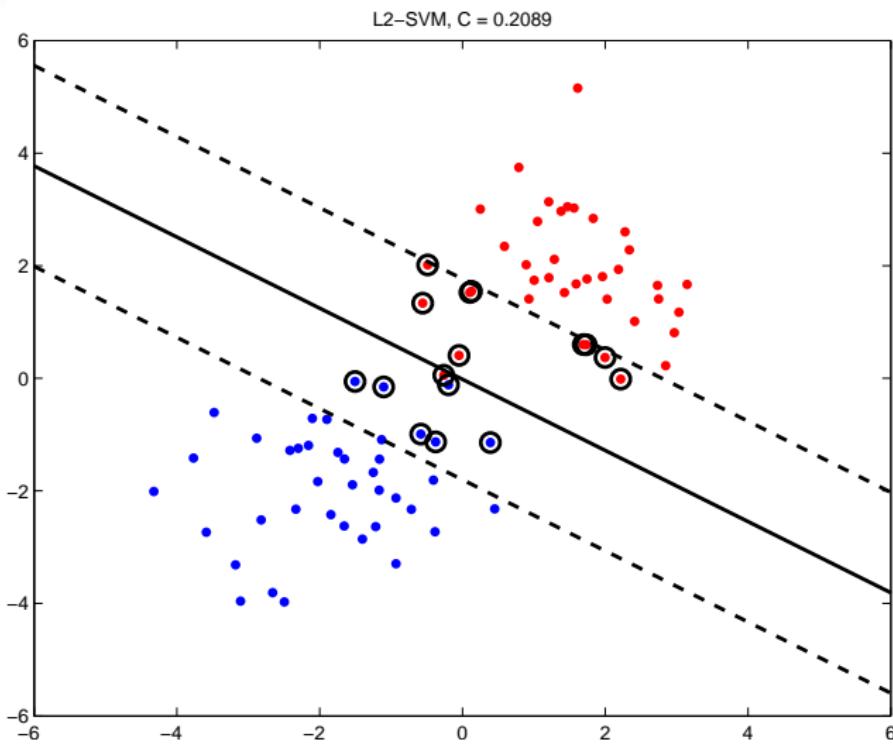
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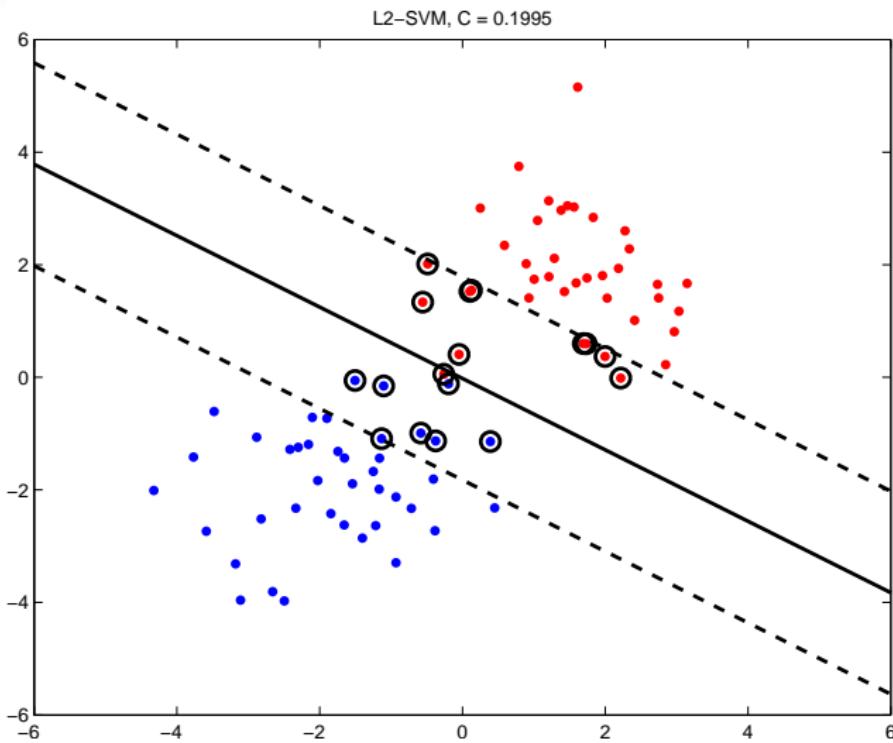
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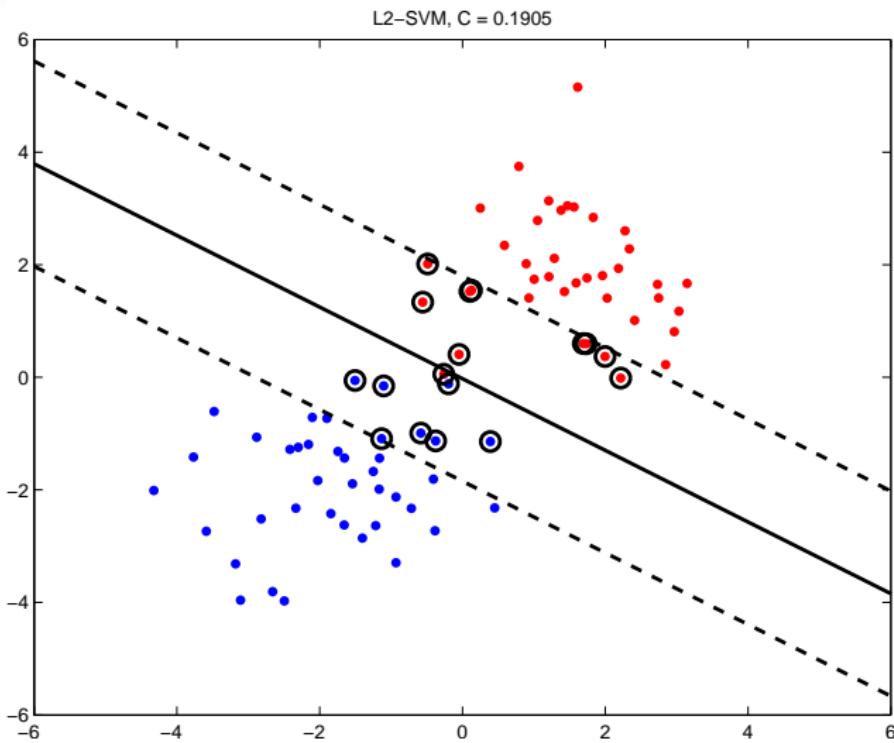
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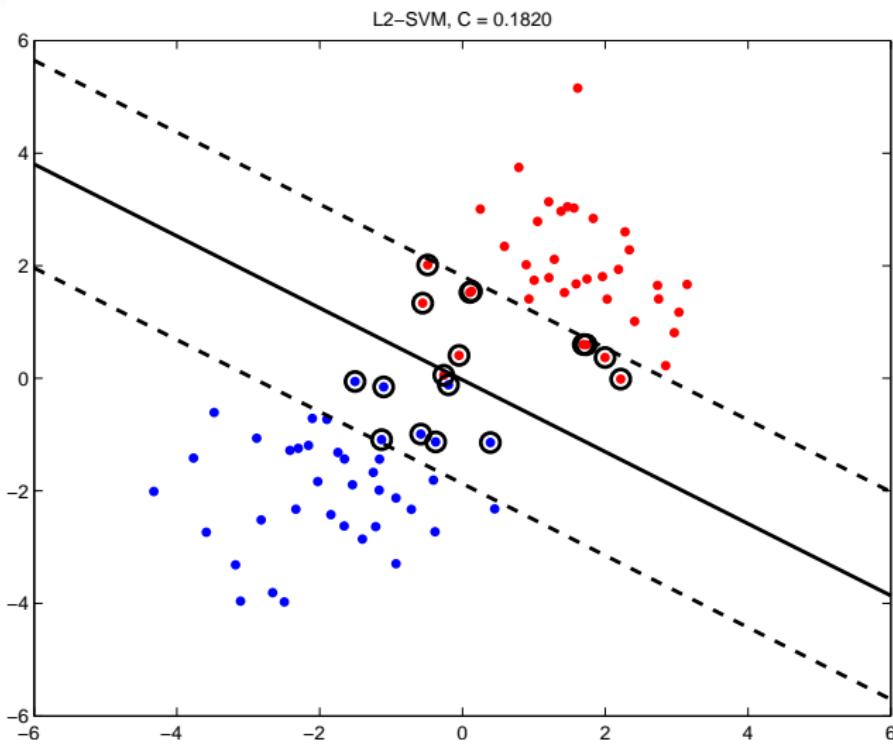
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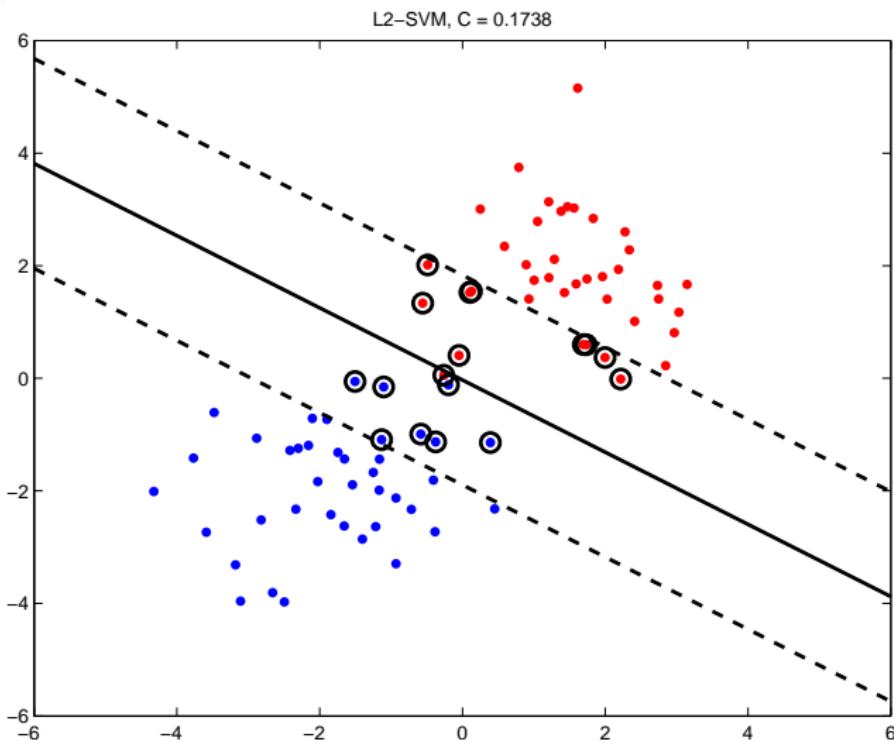
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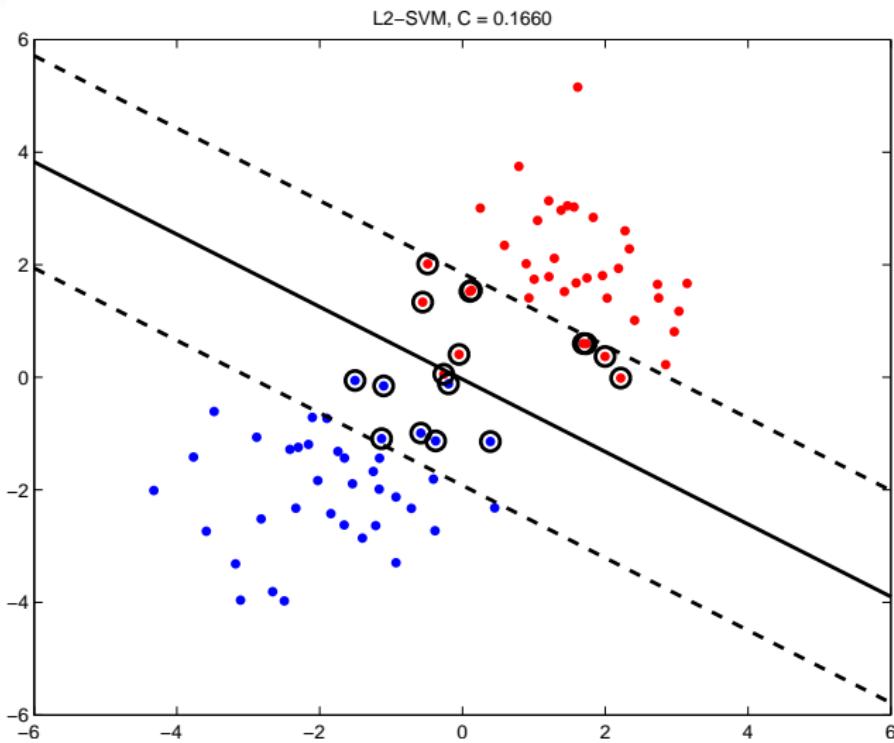
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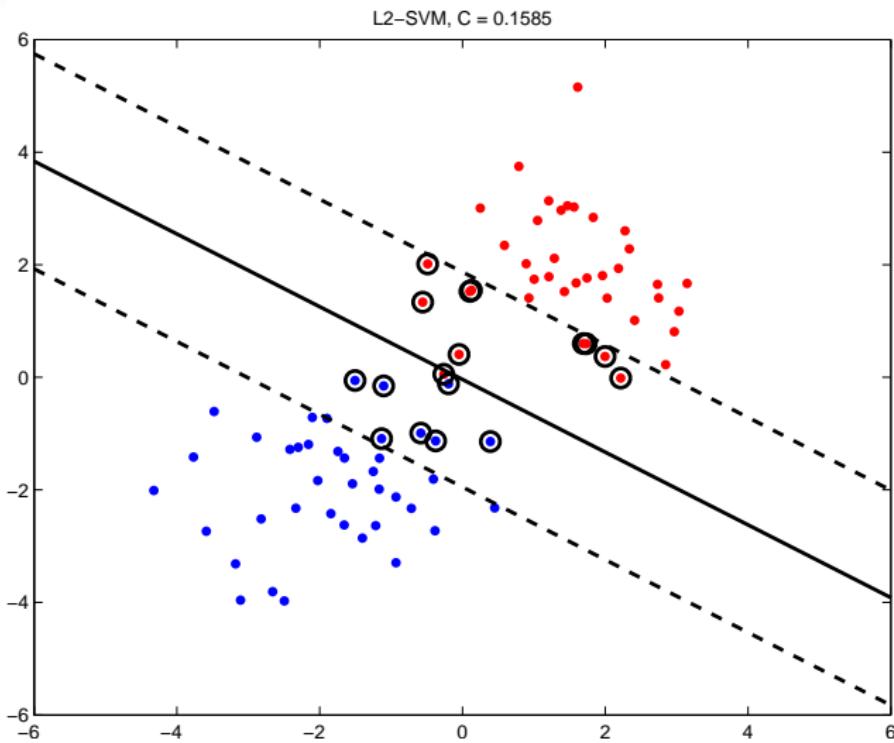
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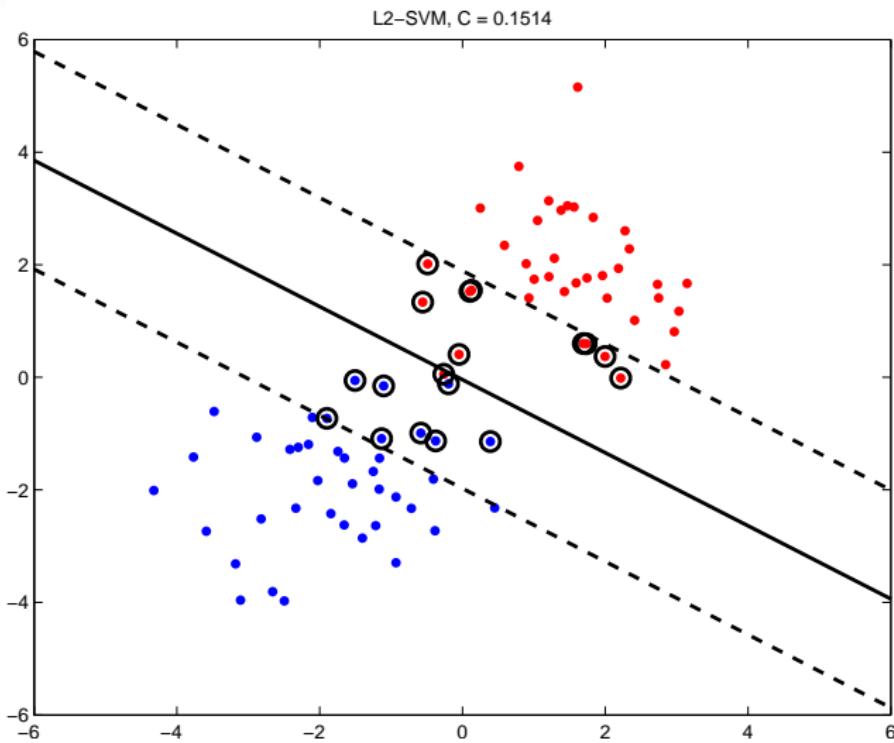
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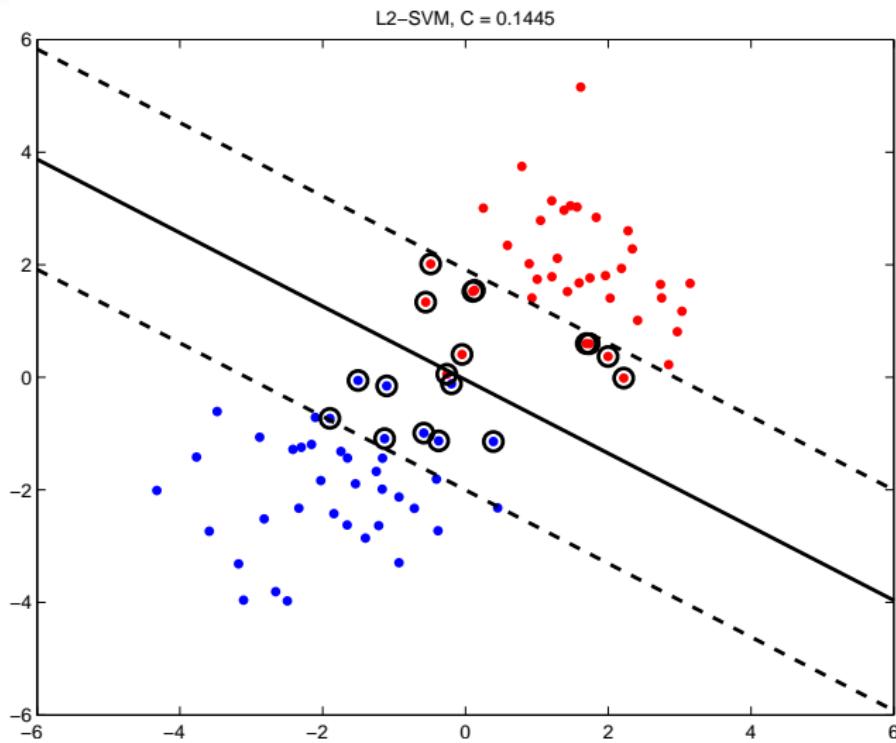
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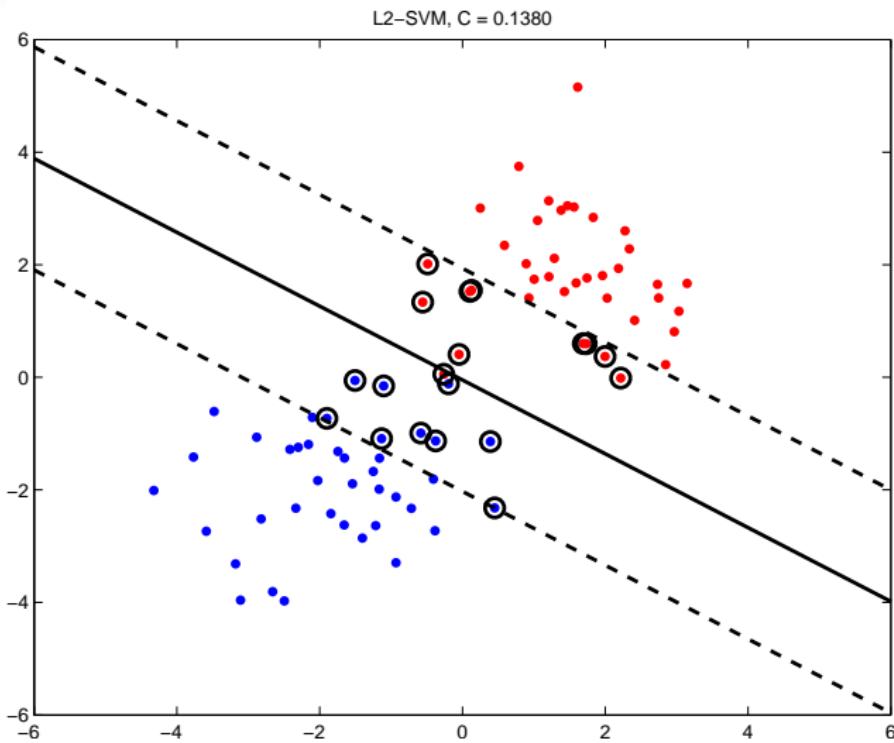
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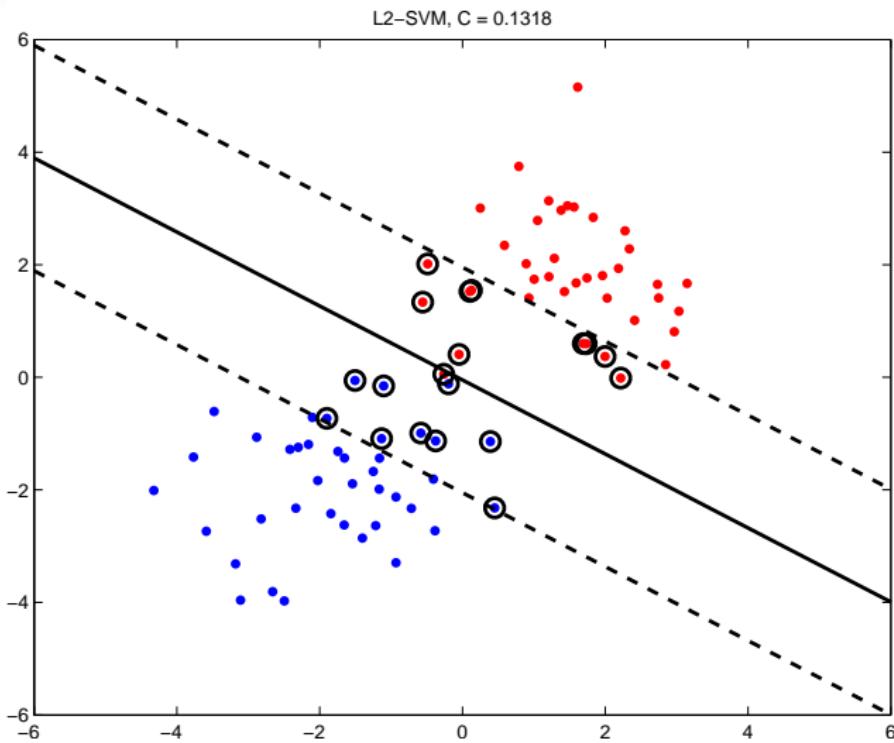
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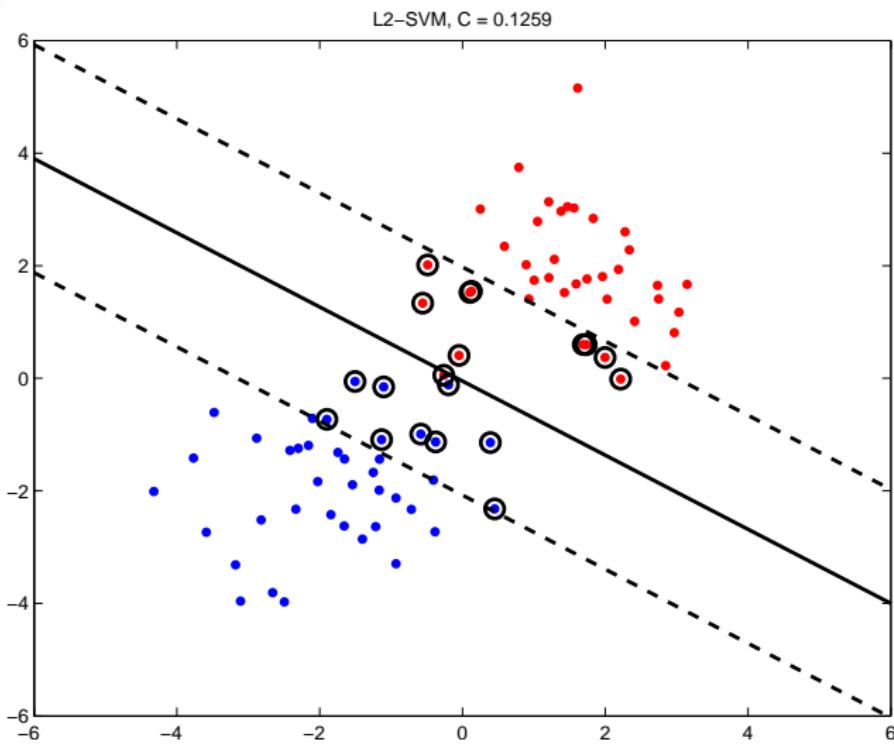
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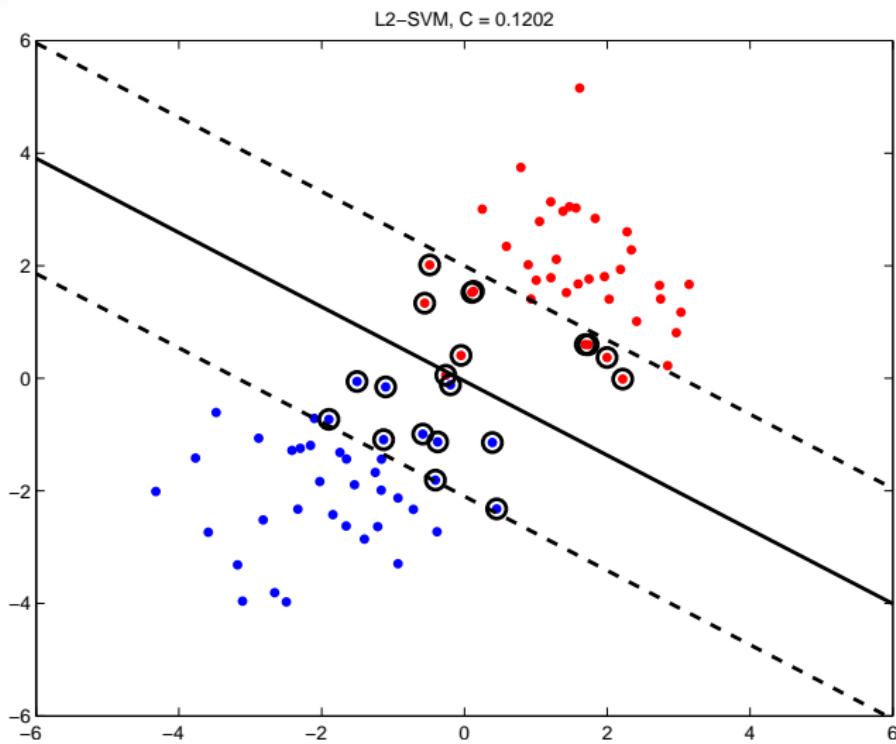
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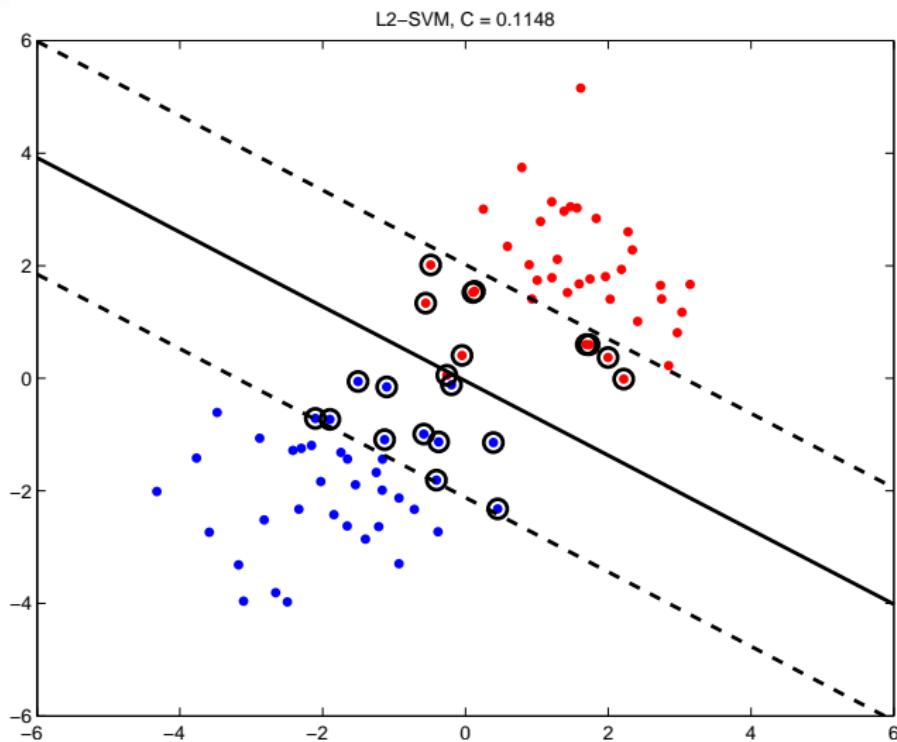
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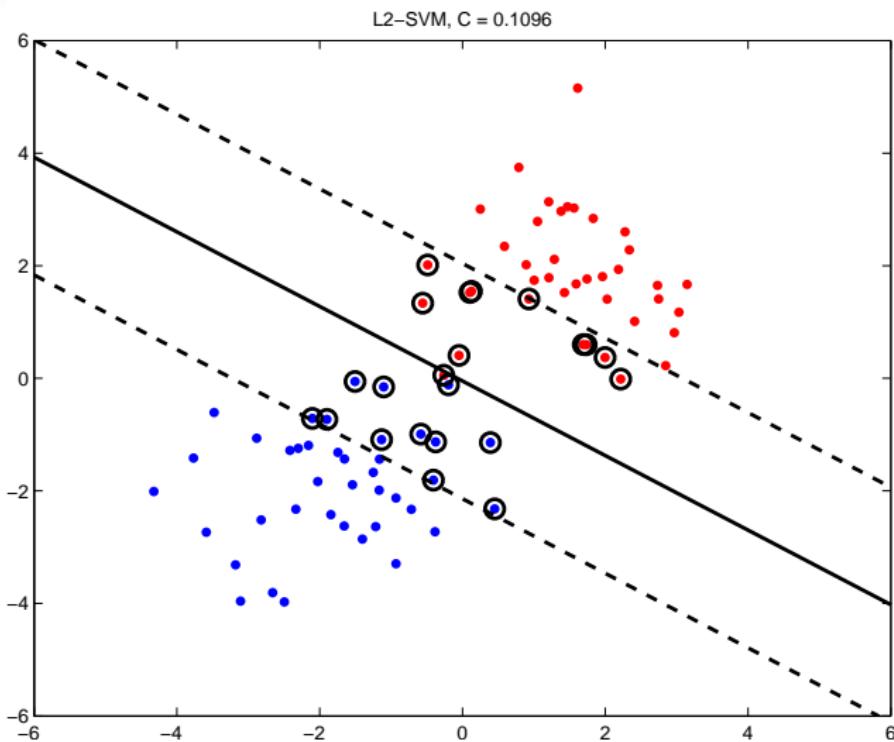
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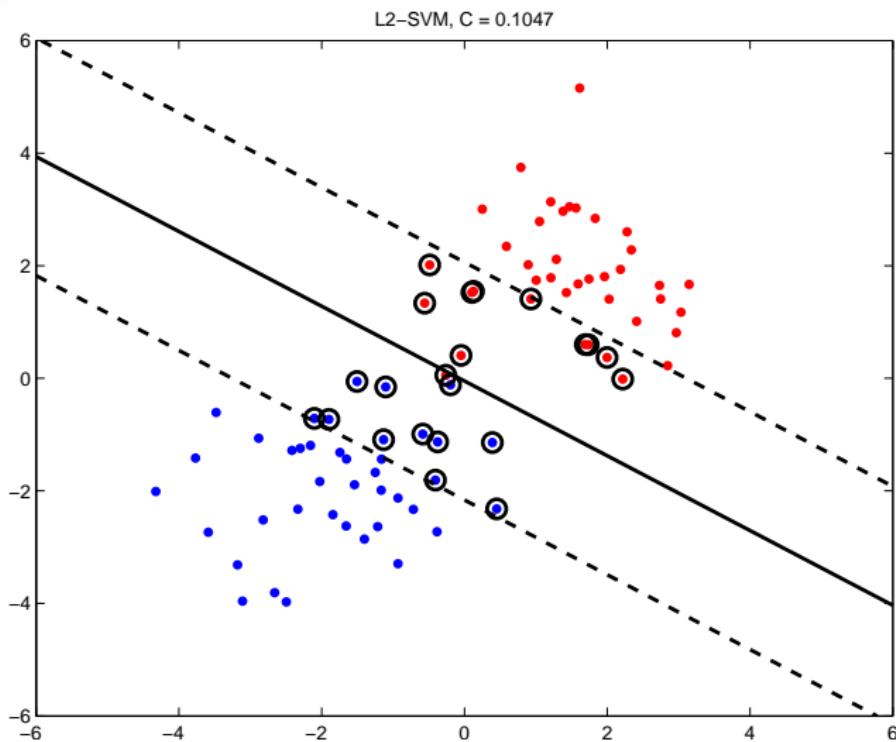
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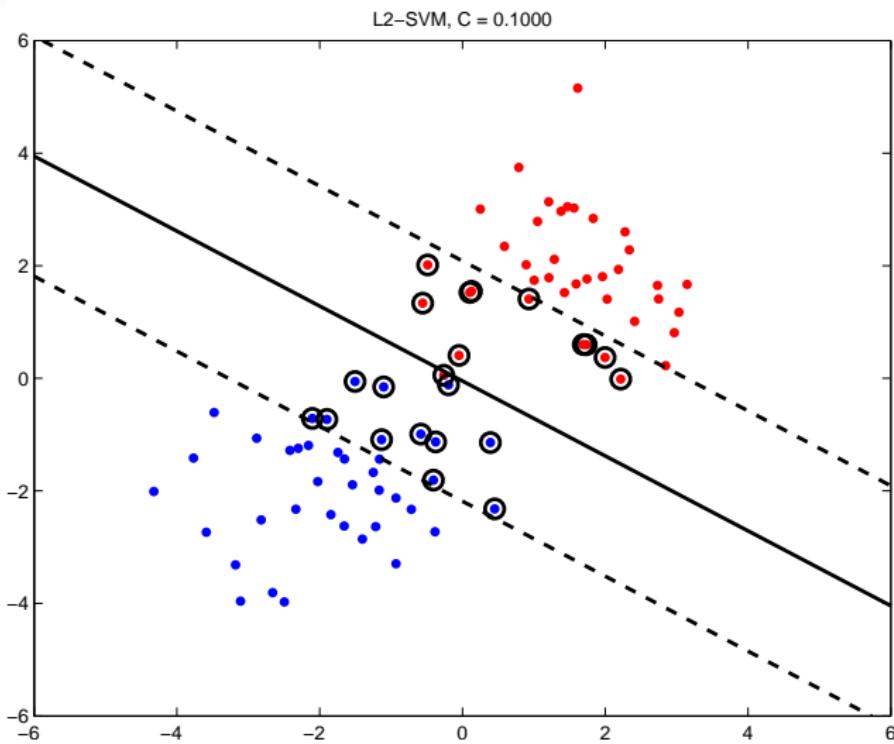
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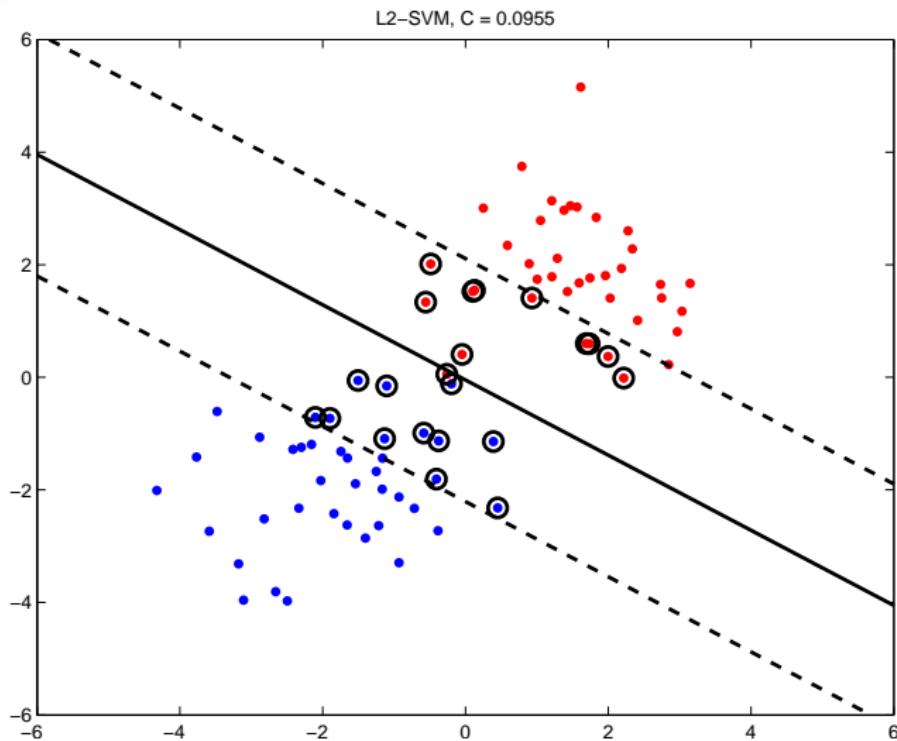
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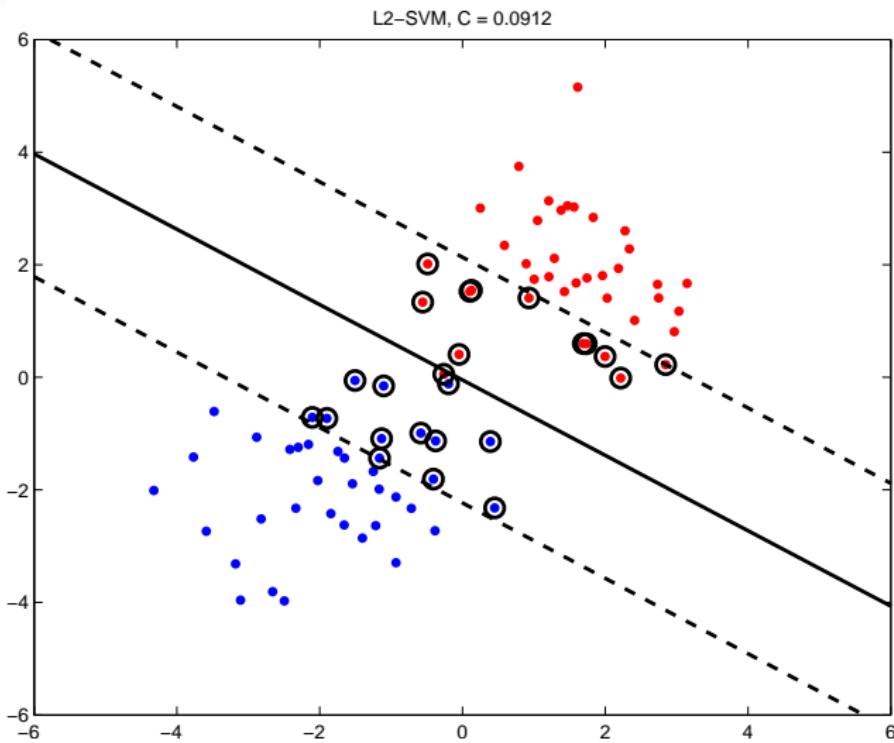
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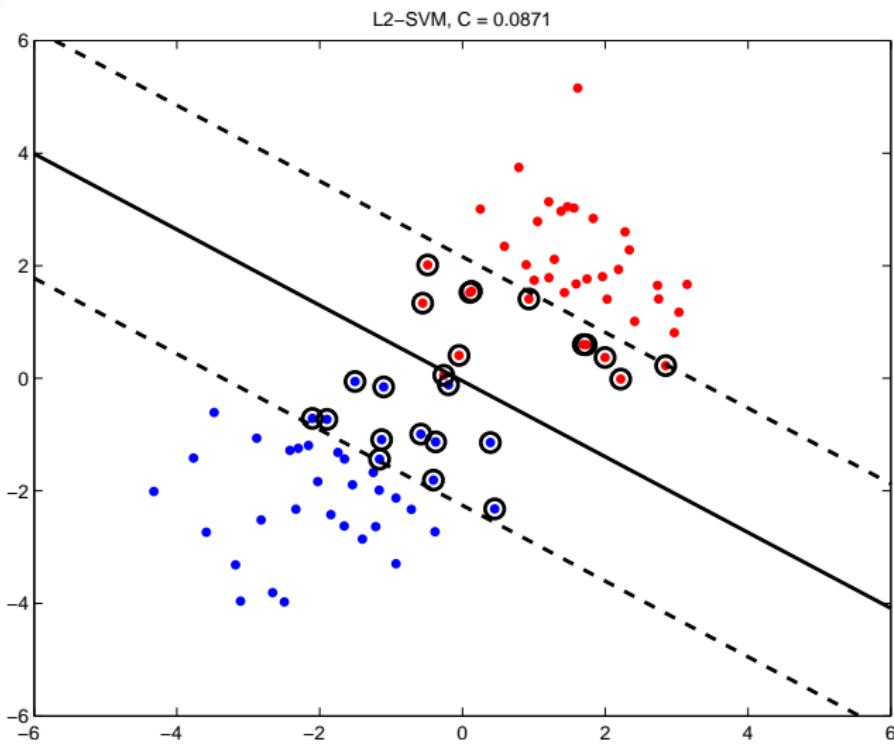
# L2-SVM Example



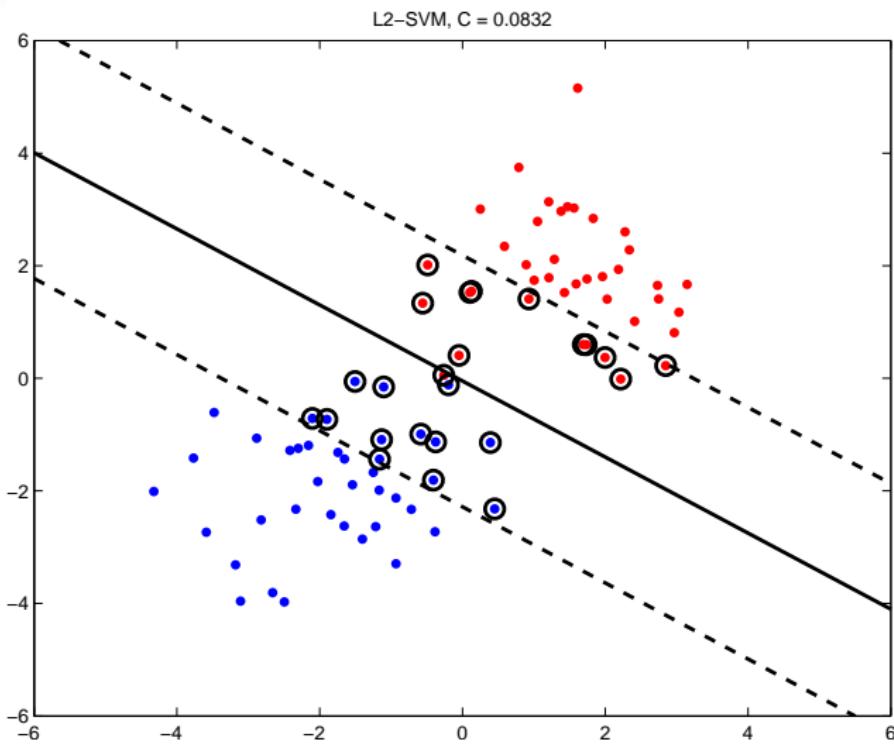
# L2-SVM Example



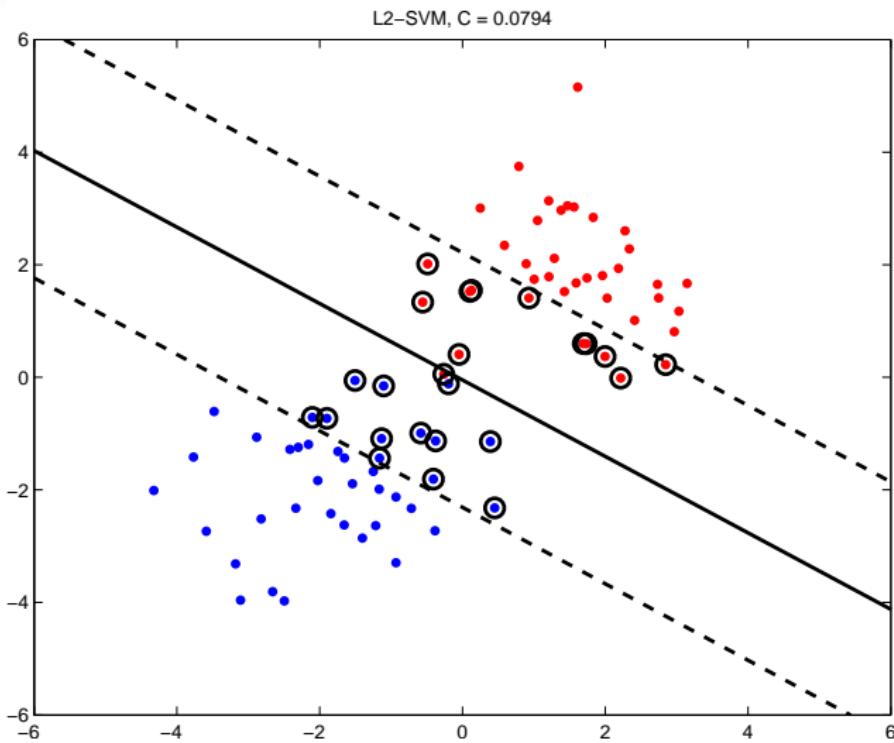
# L2-SVM Example



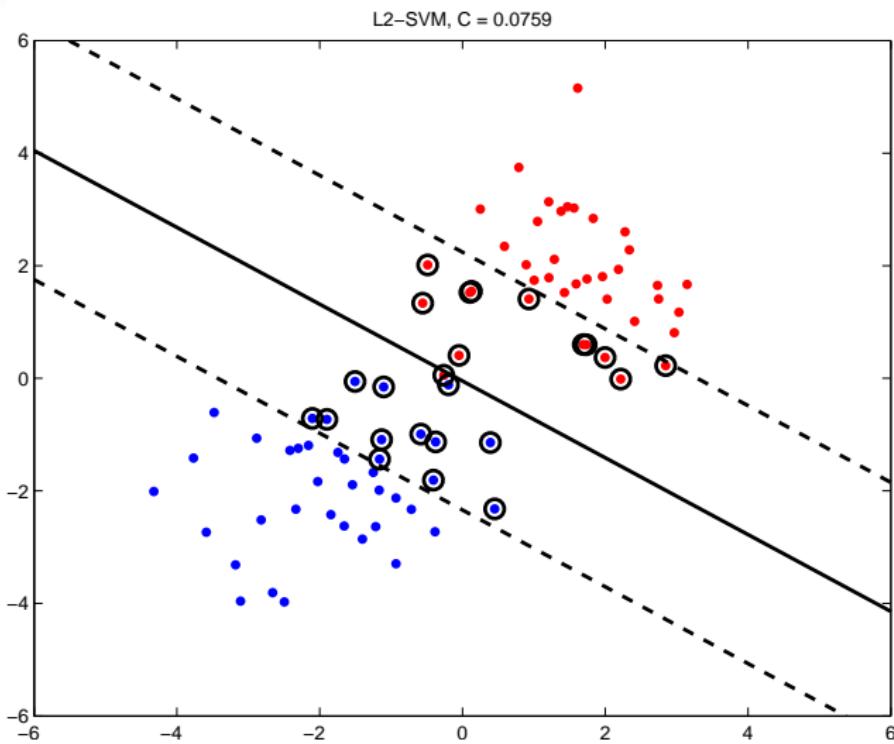
# L2-SVM Example



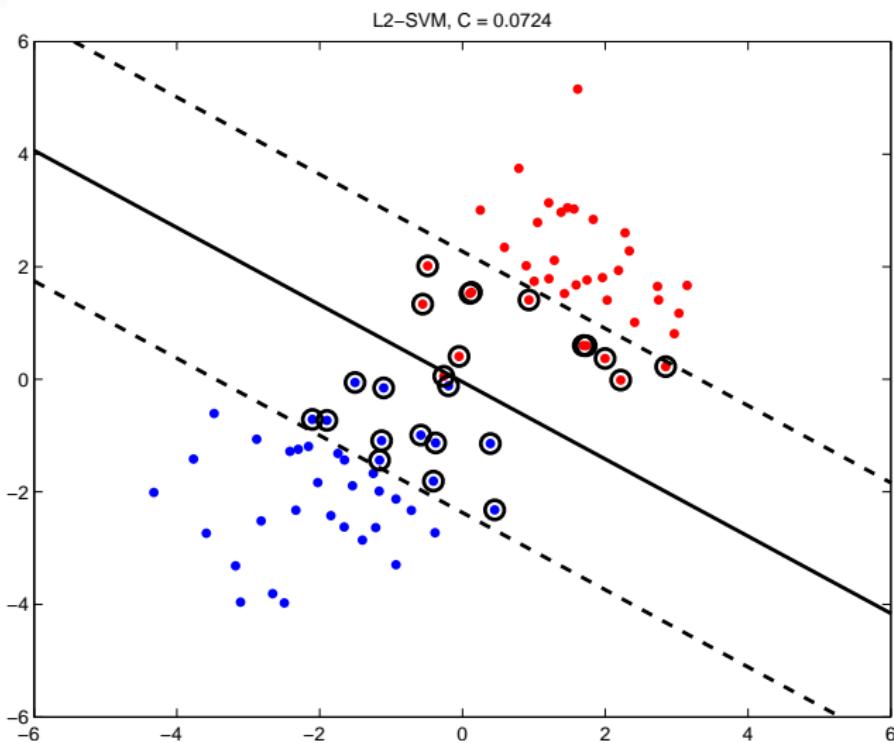
# L2-SVM Example



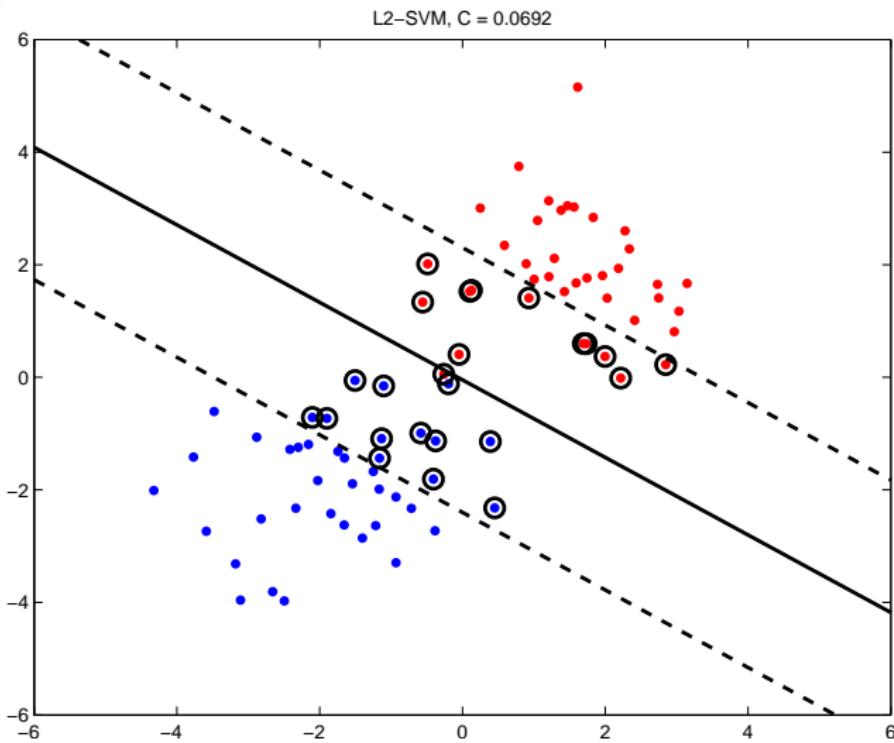
# L2-SVM Example



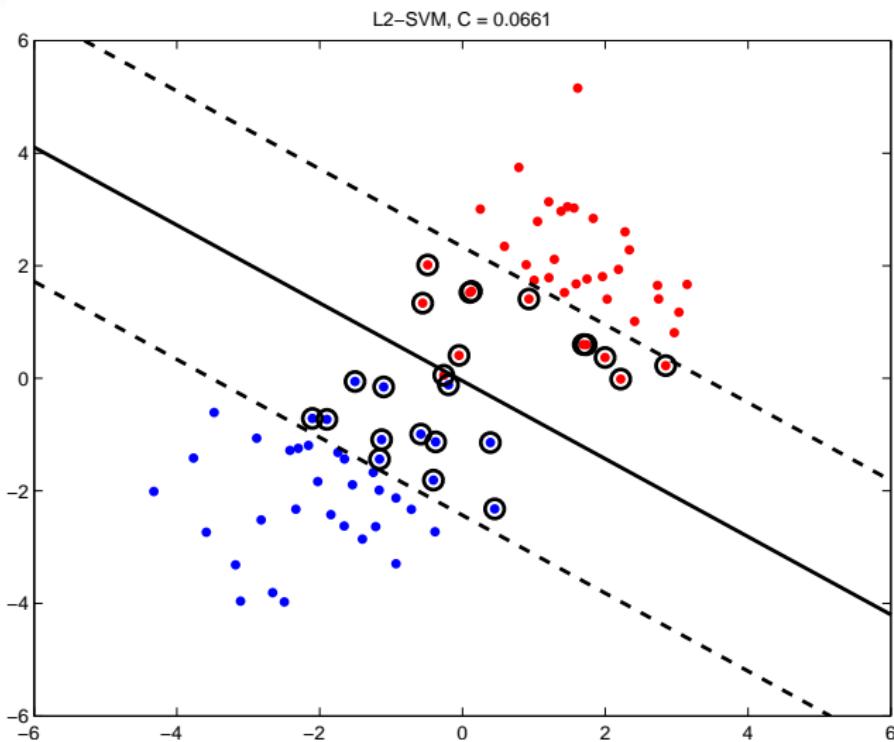
# L2-SVM Example



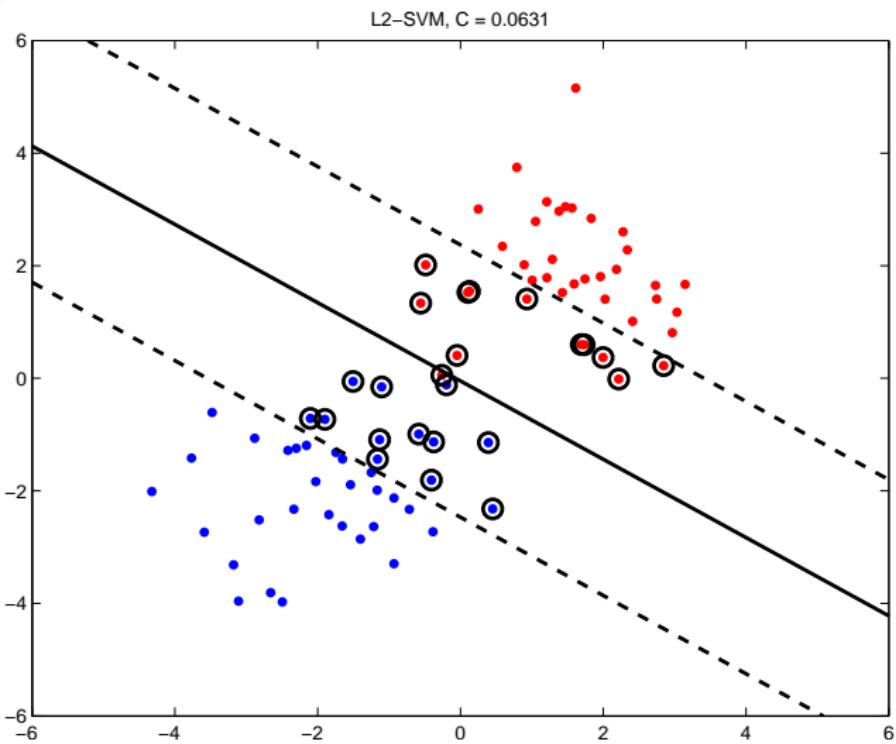
# L2-SVM Example



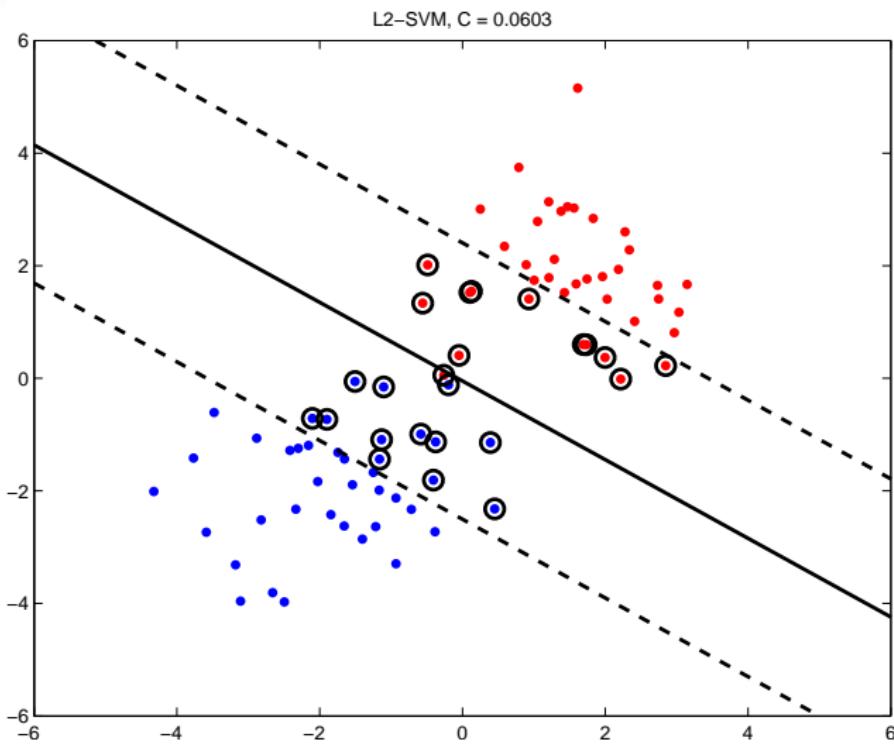
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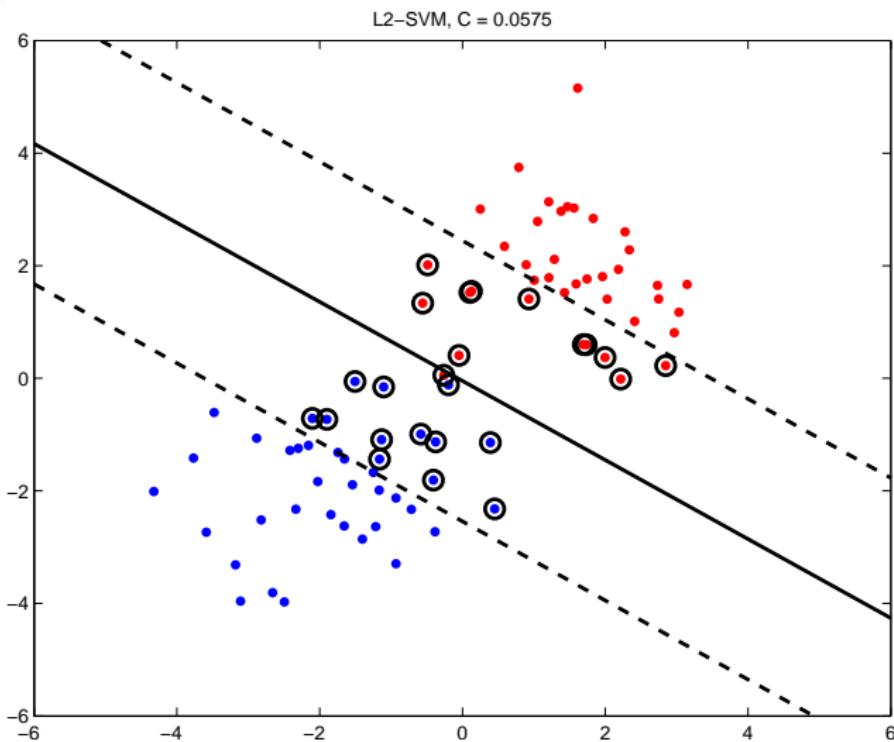
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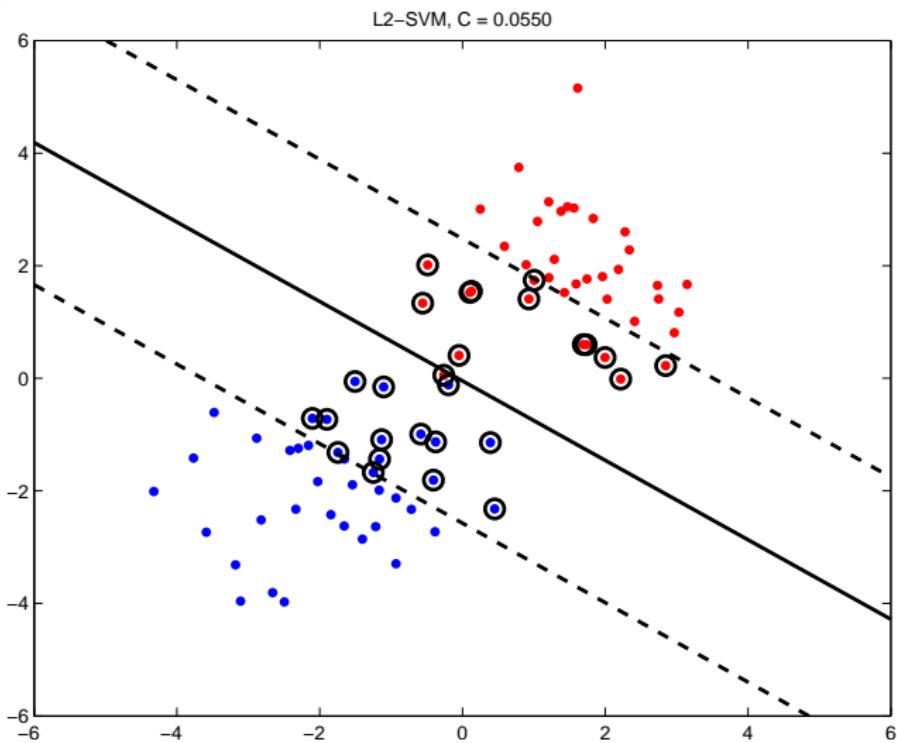
# L2-SVM Example



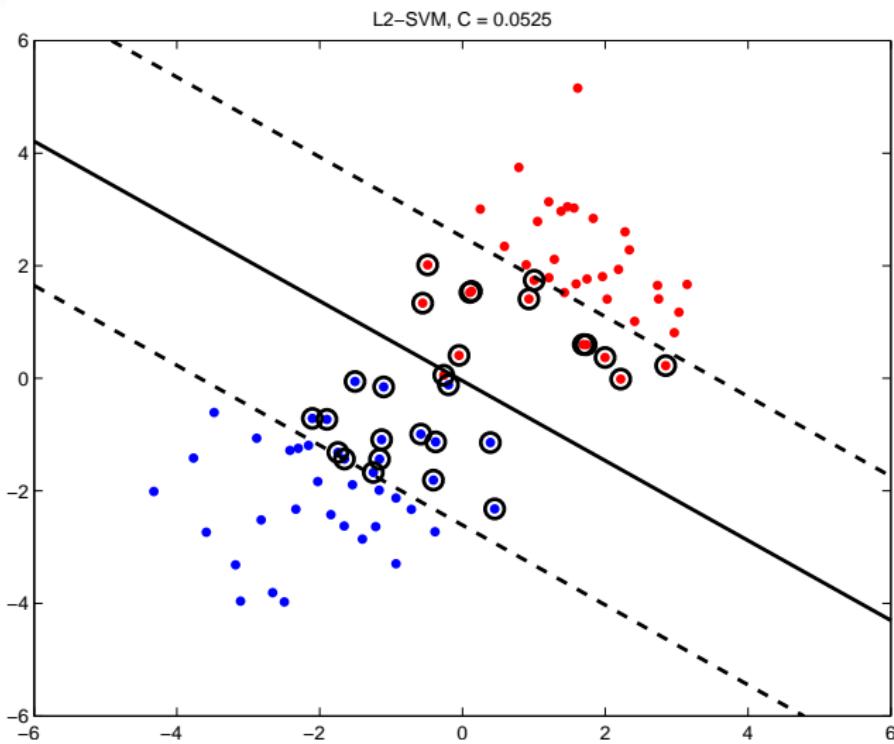
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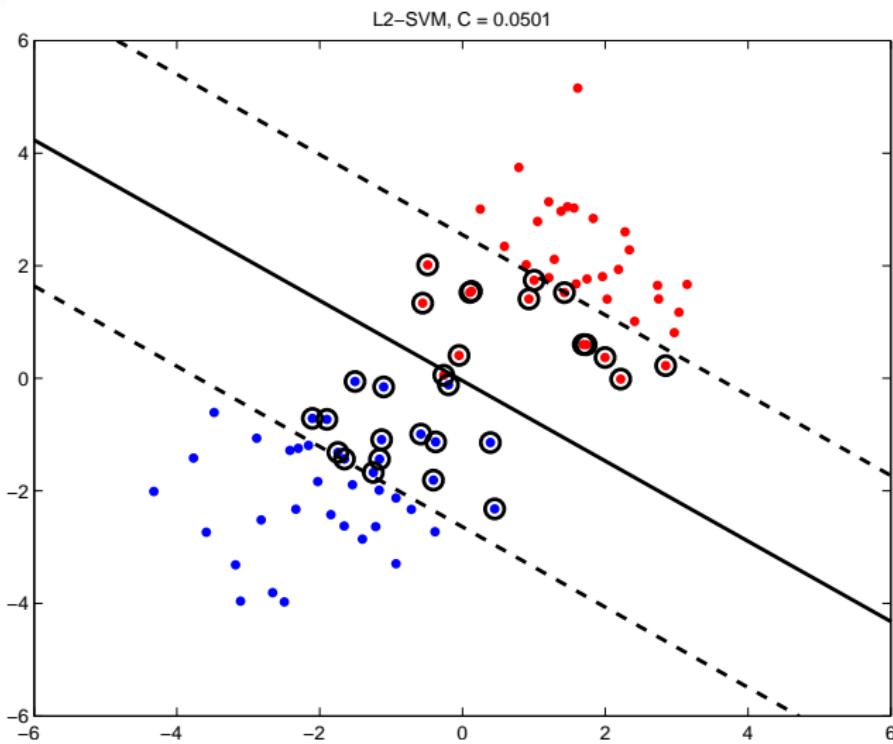
# L2-SVM Example



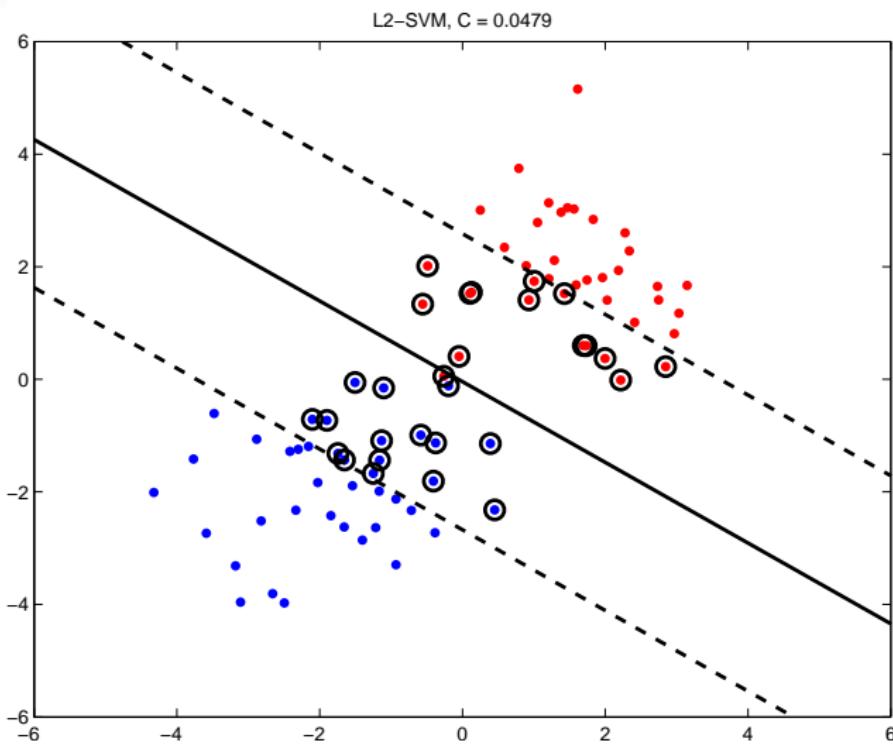
# L2-SVM Example



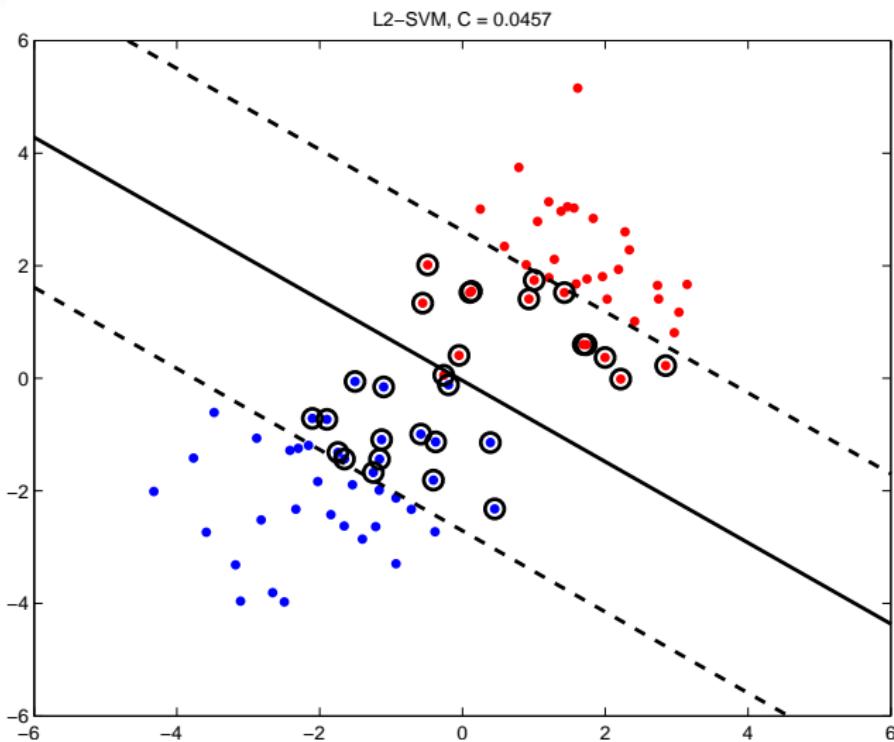
# L2-SVM Example



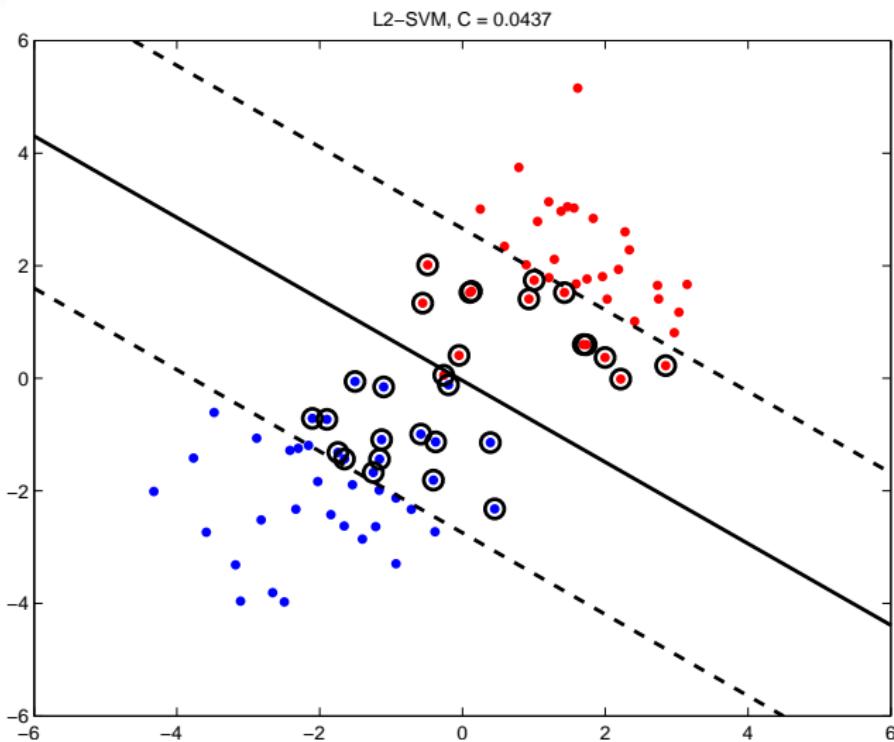
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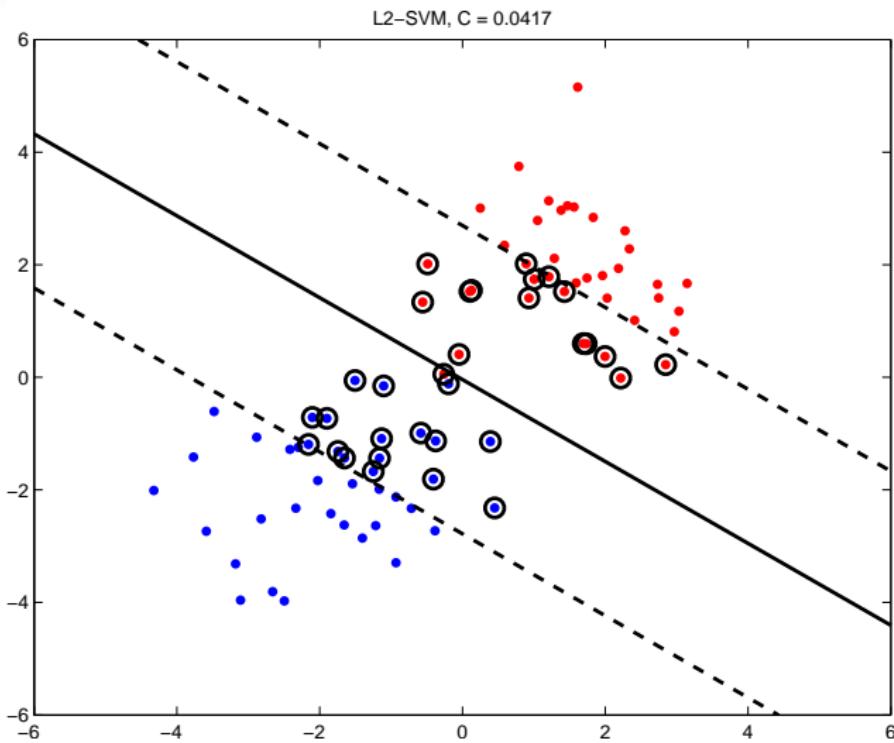
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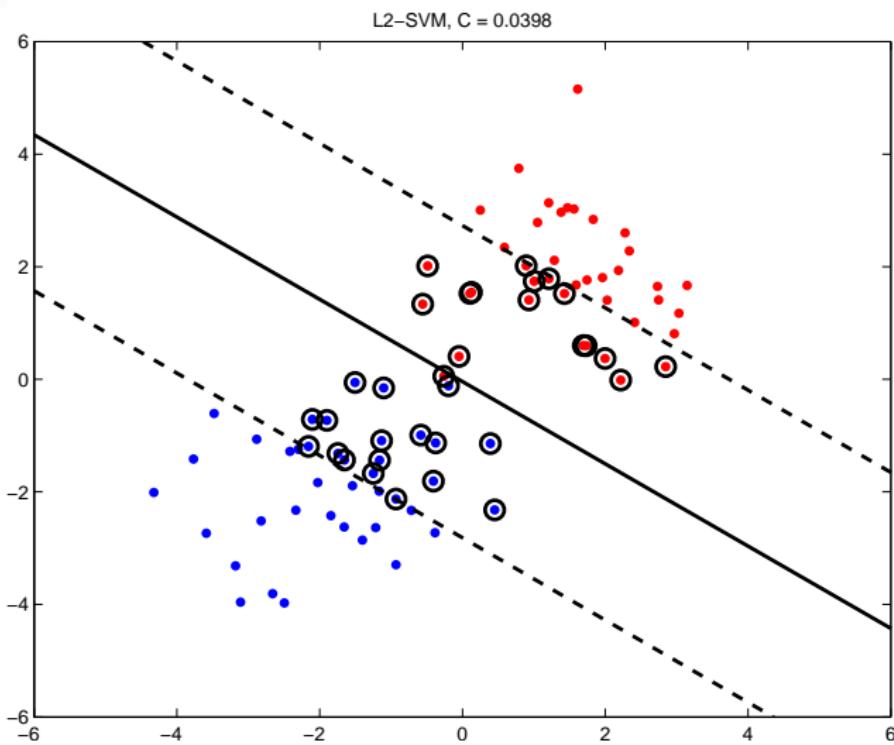
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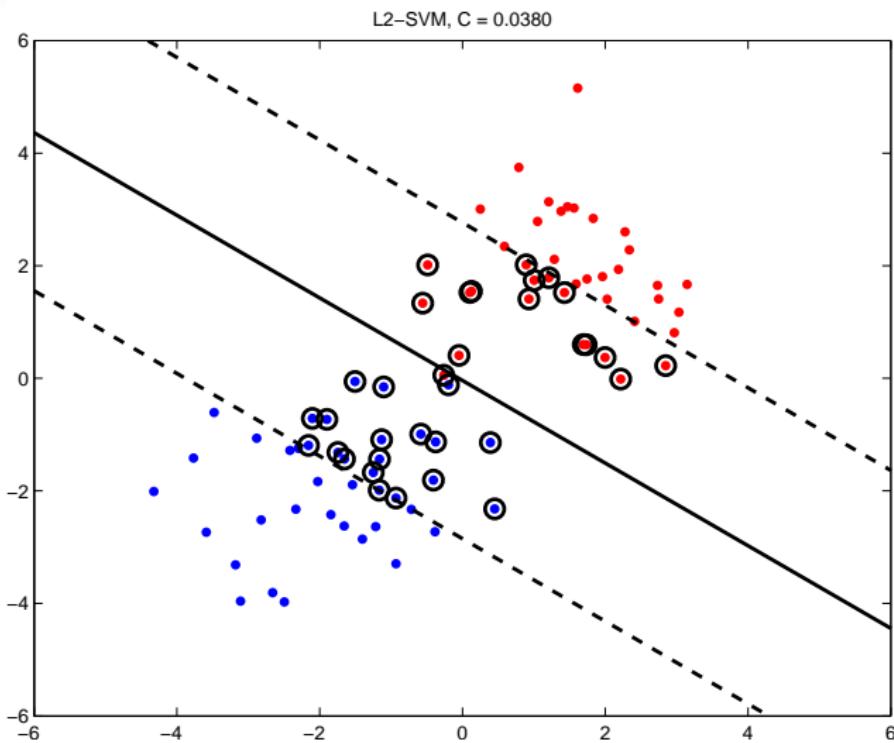
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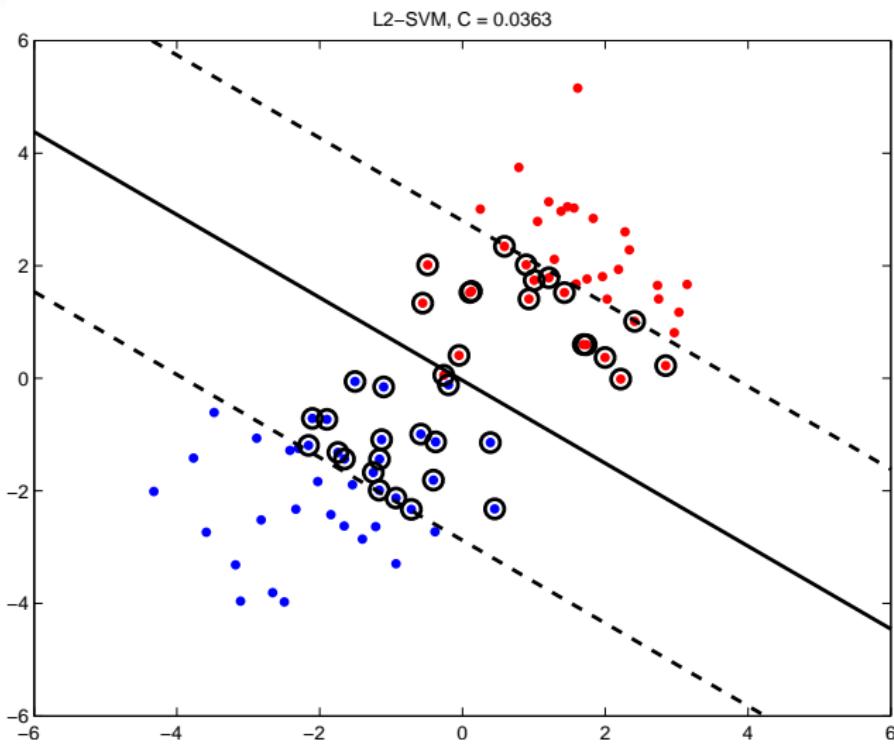
# L2-SVM Example



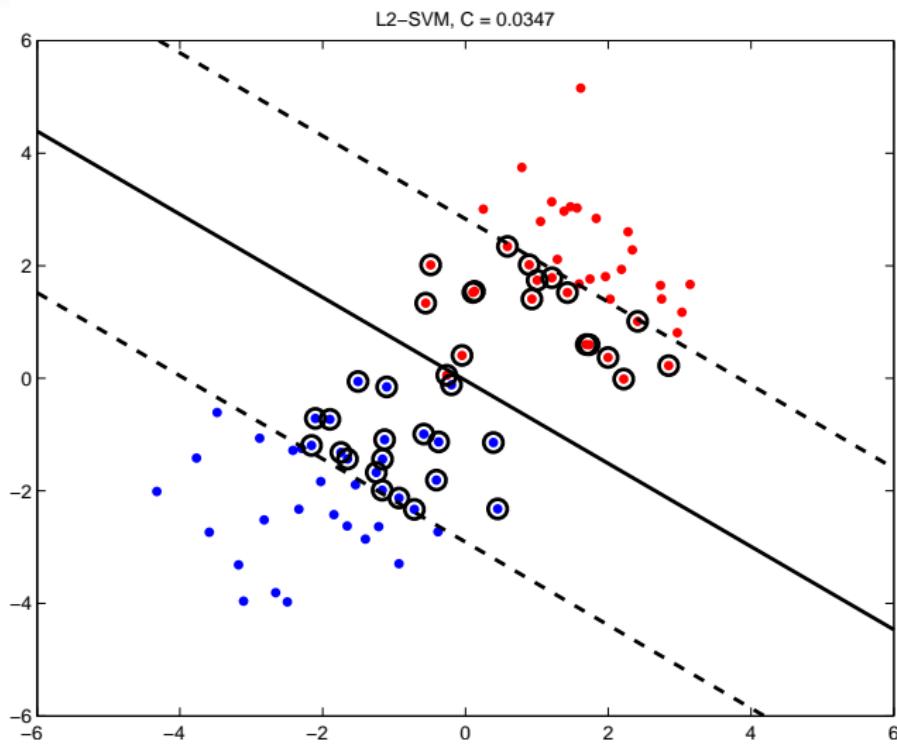
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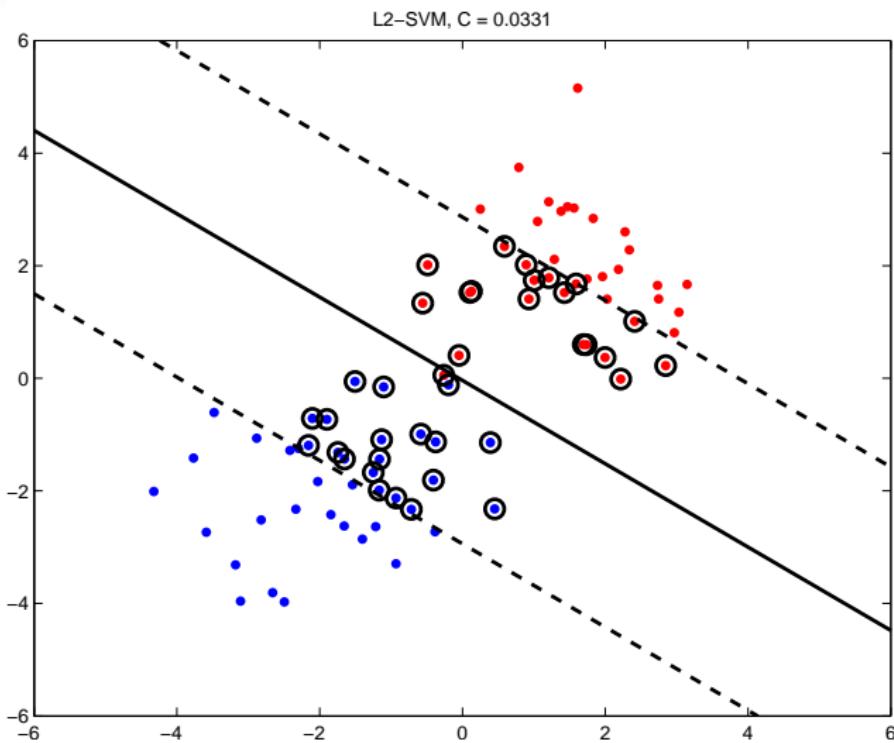
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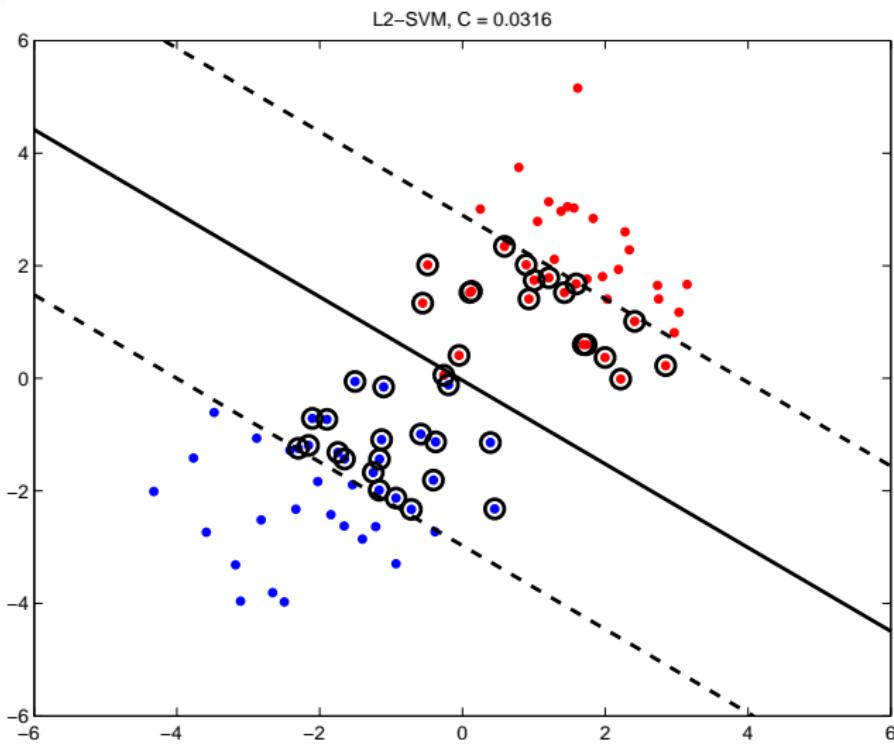
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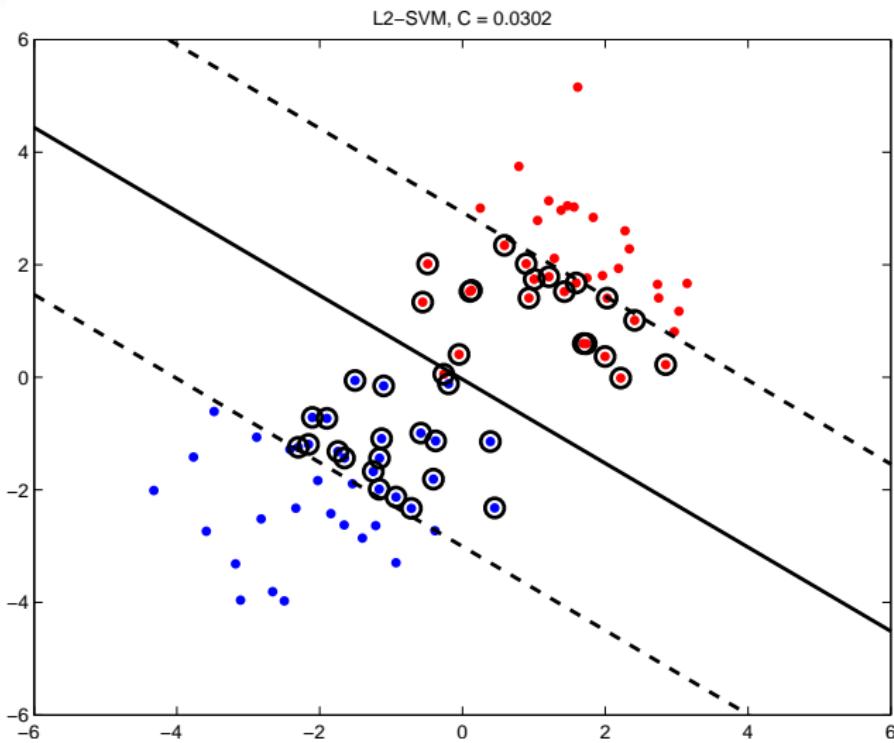
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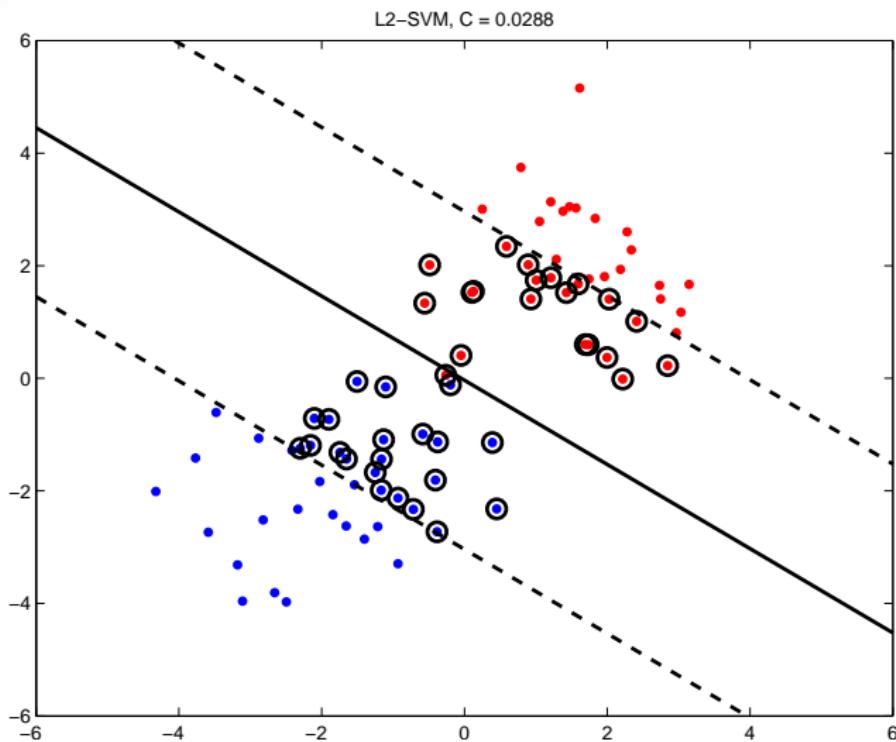
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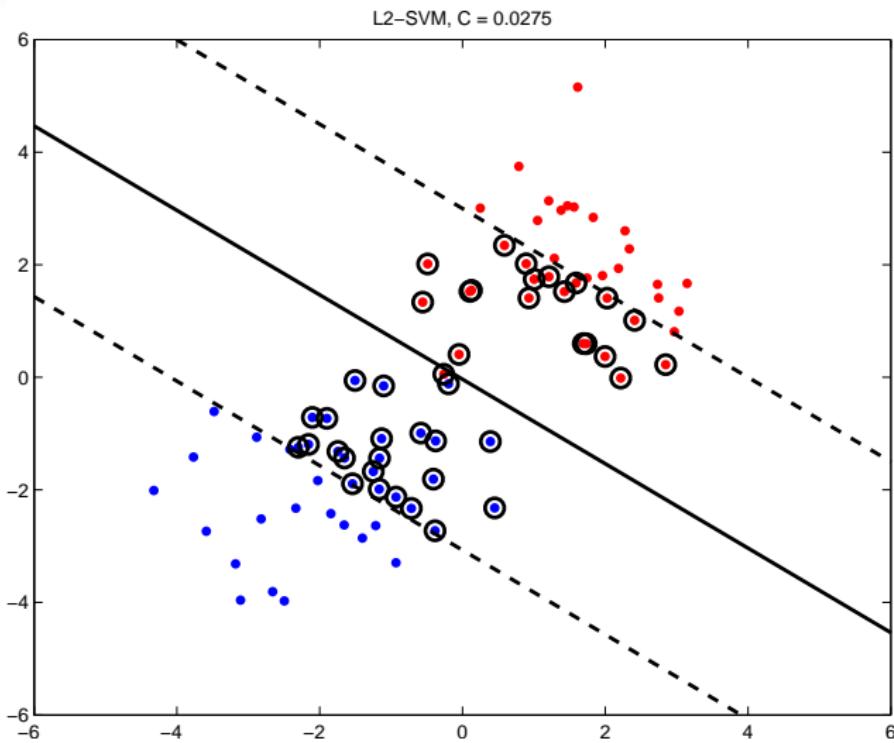
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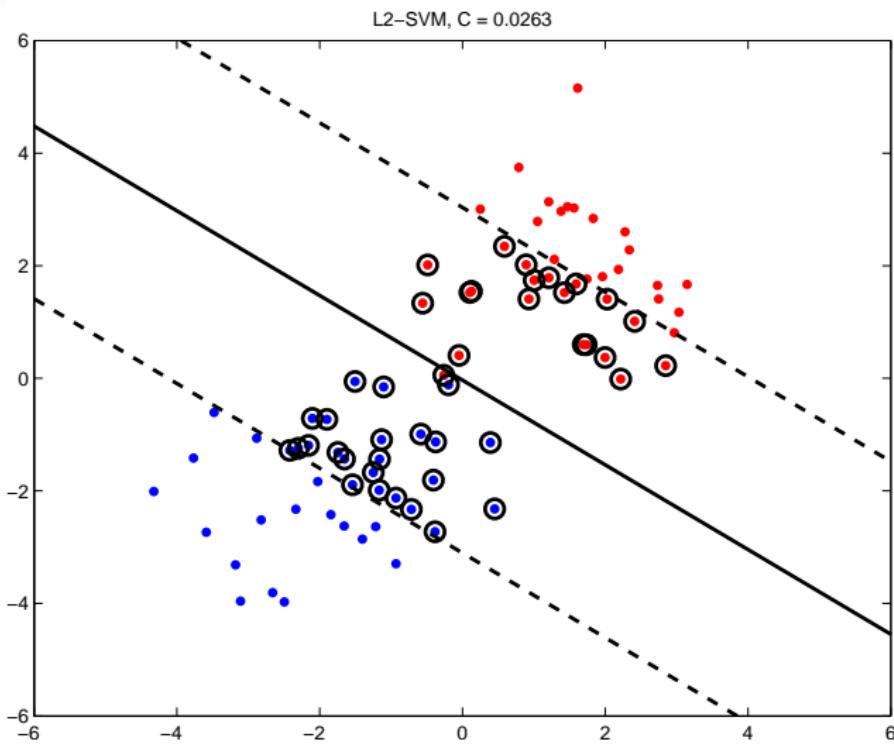
# L2-SVM Example



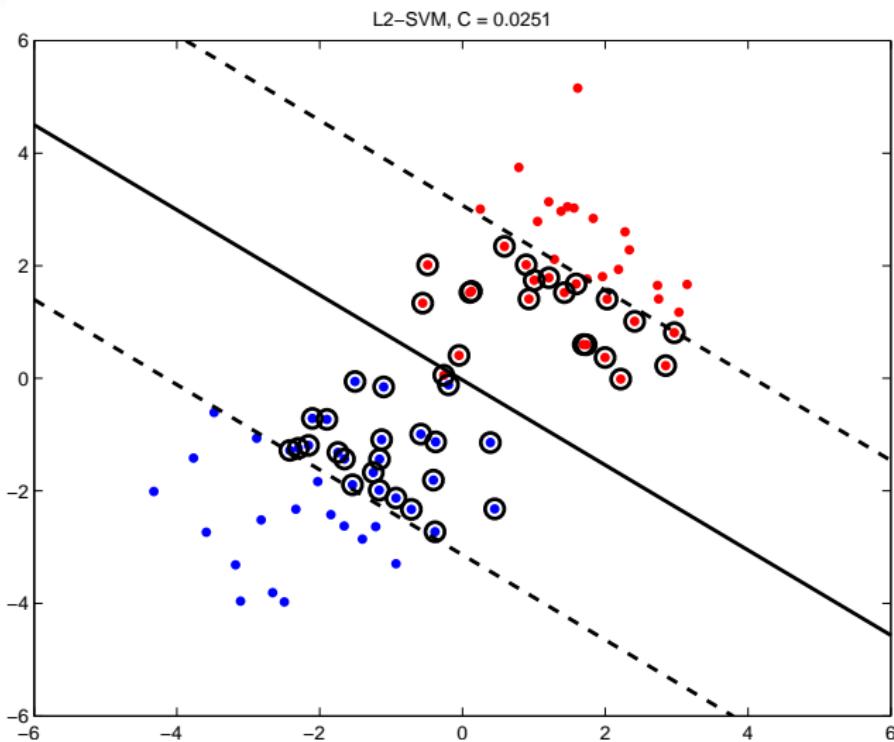
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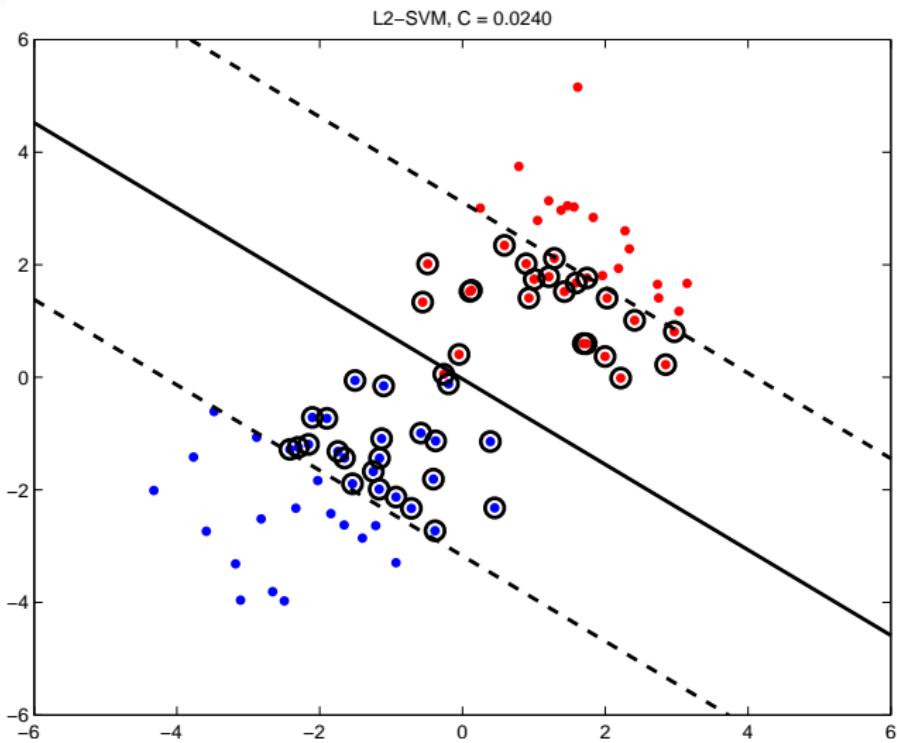
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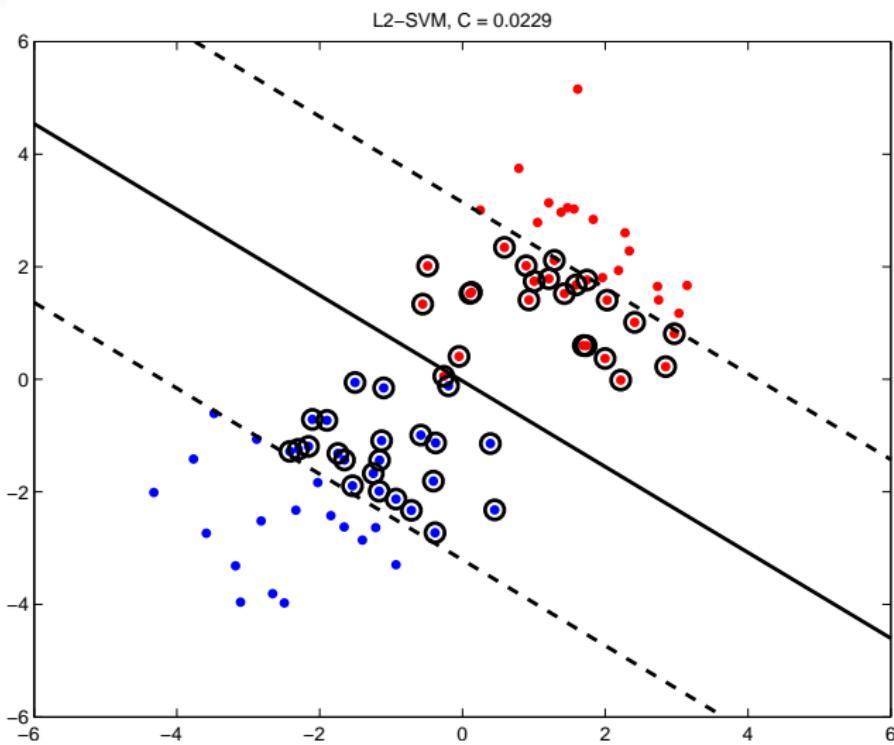
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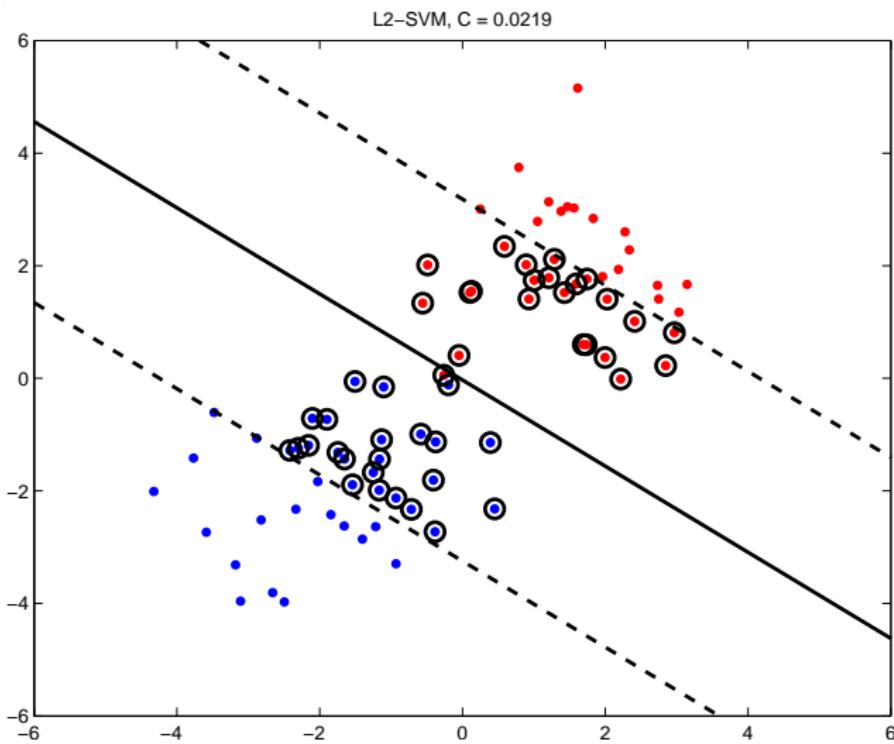
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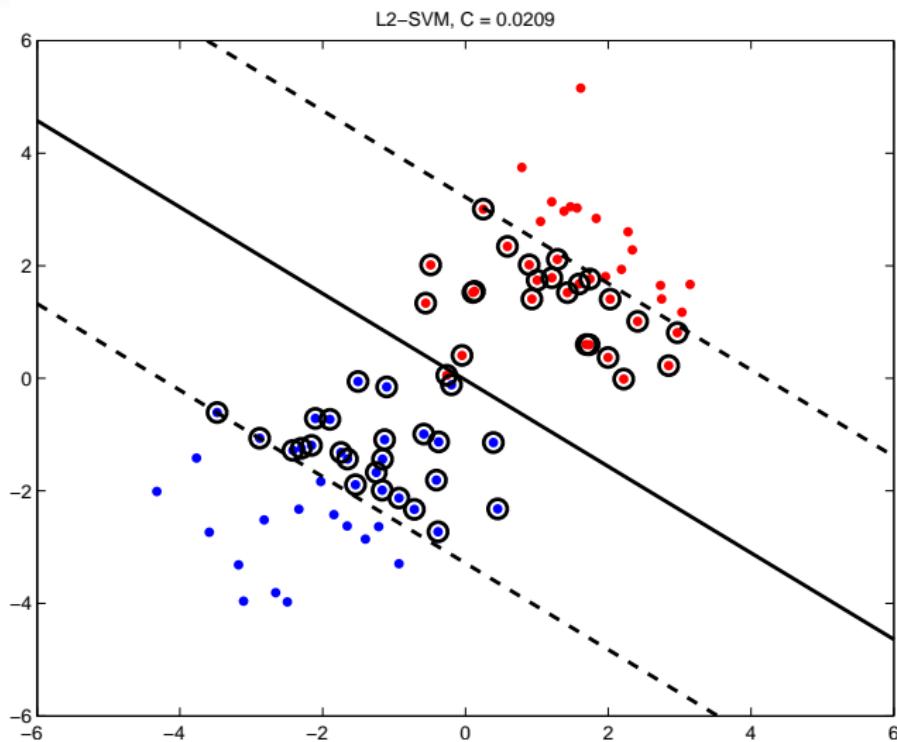
# L2-SVM Example



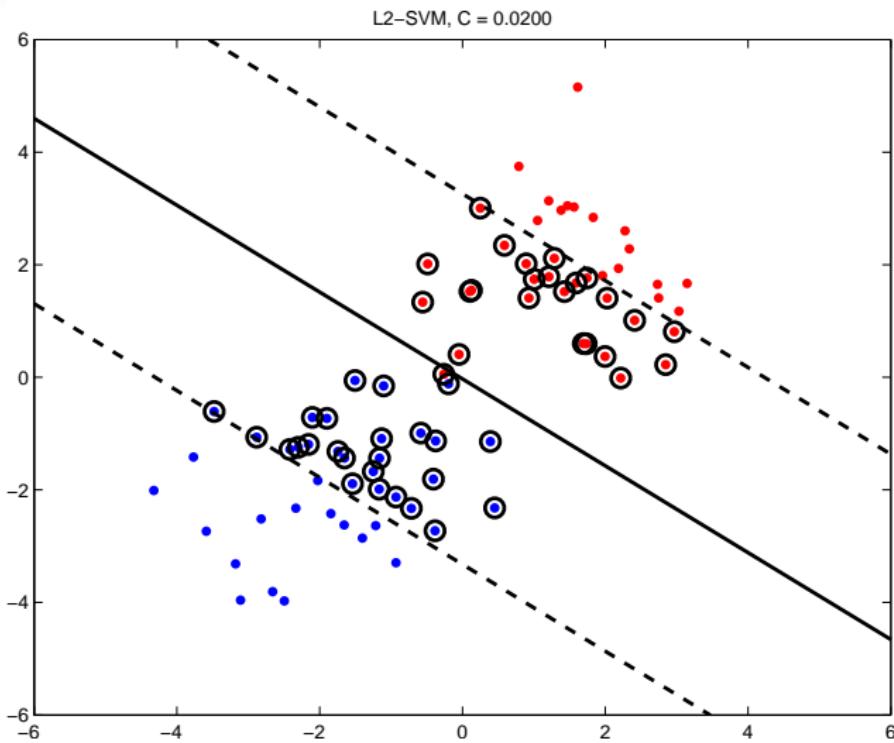
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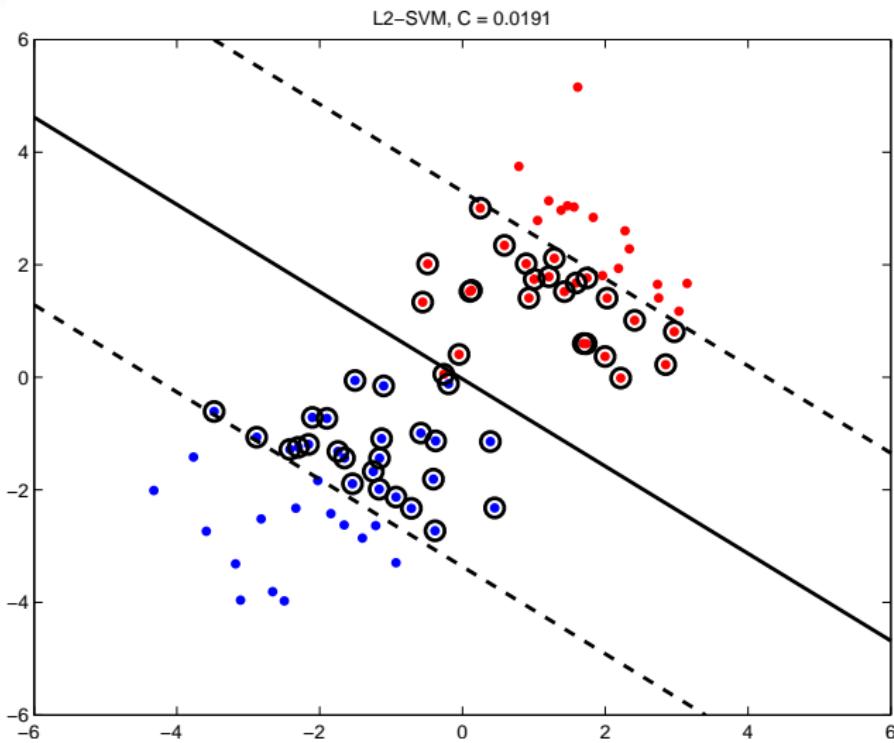
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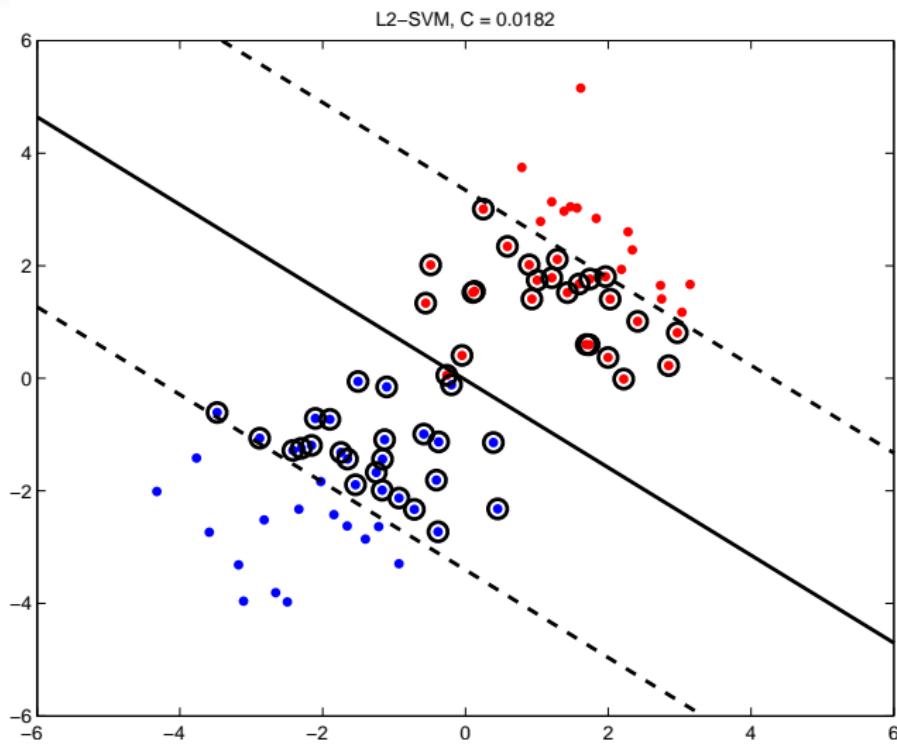
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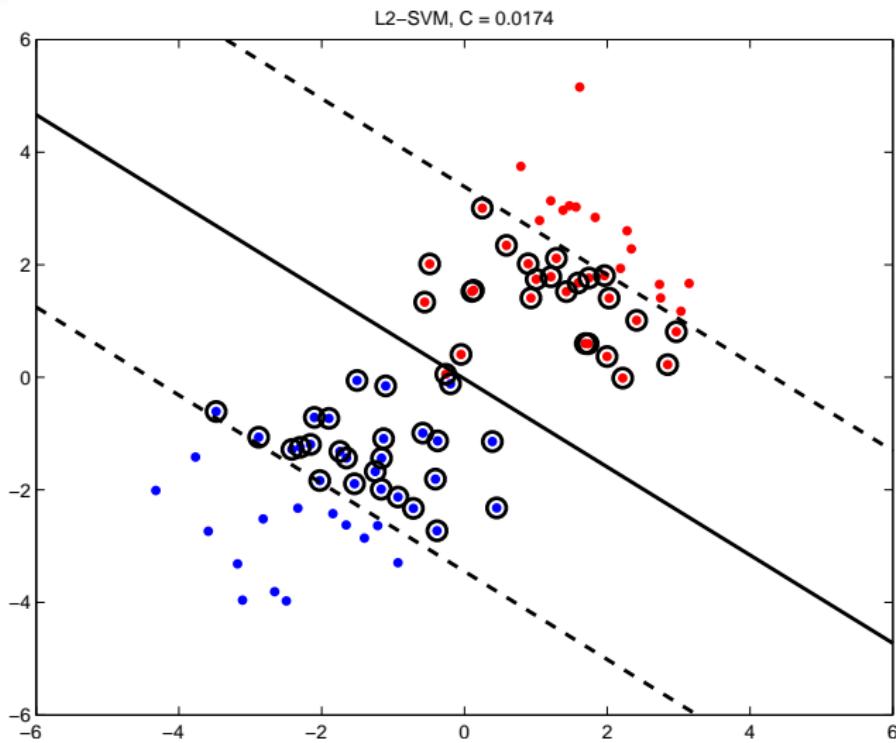
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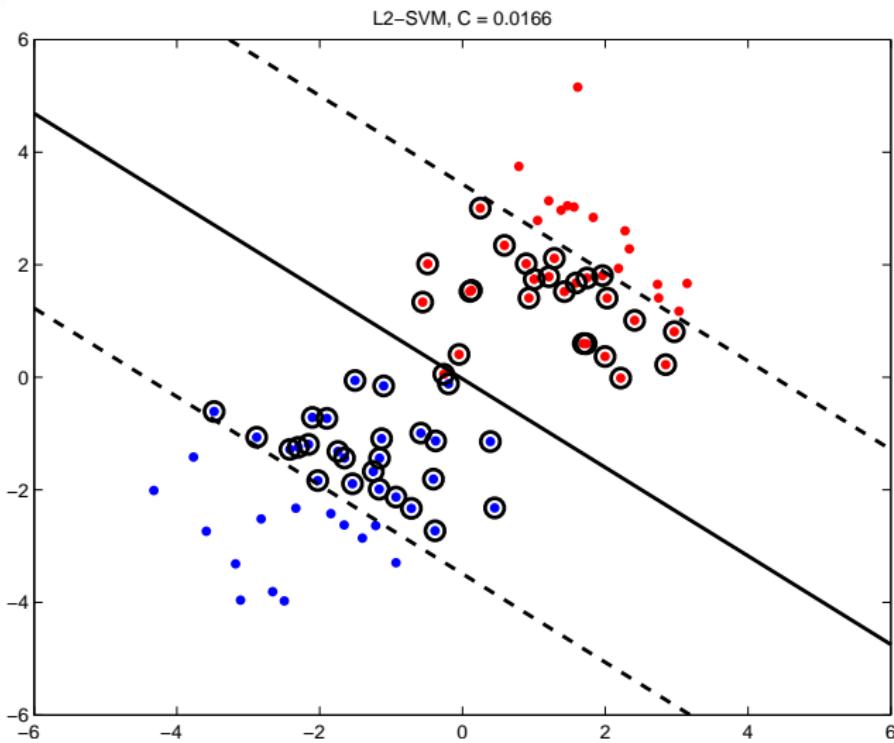
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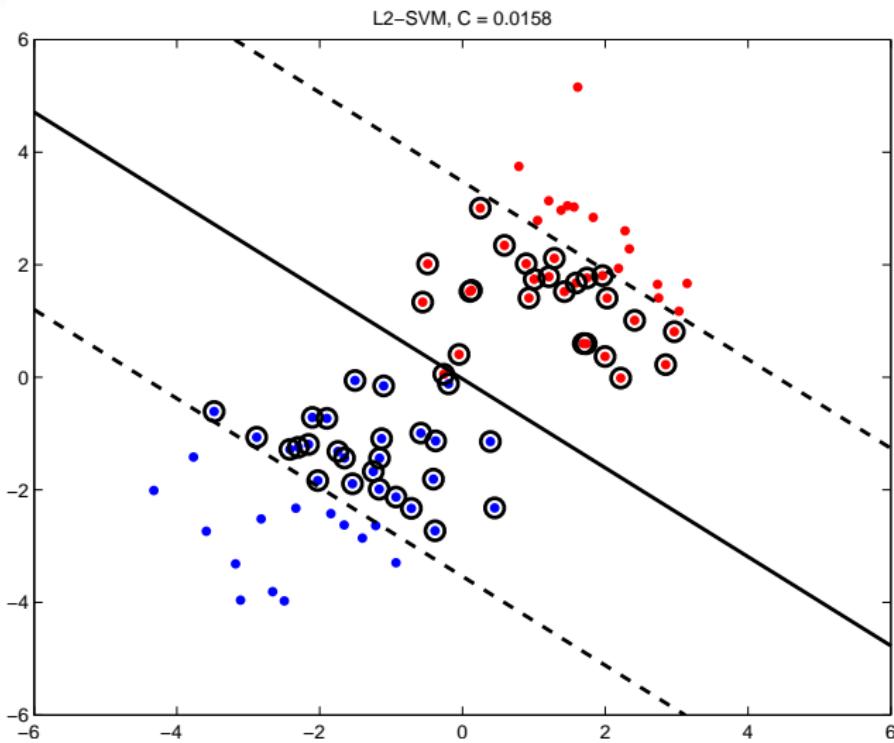
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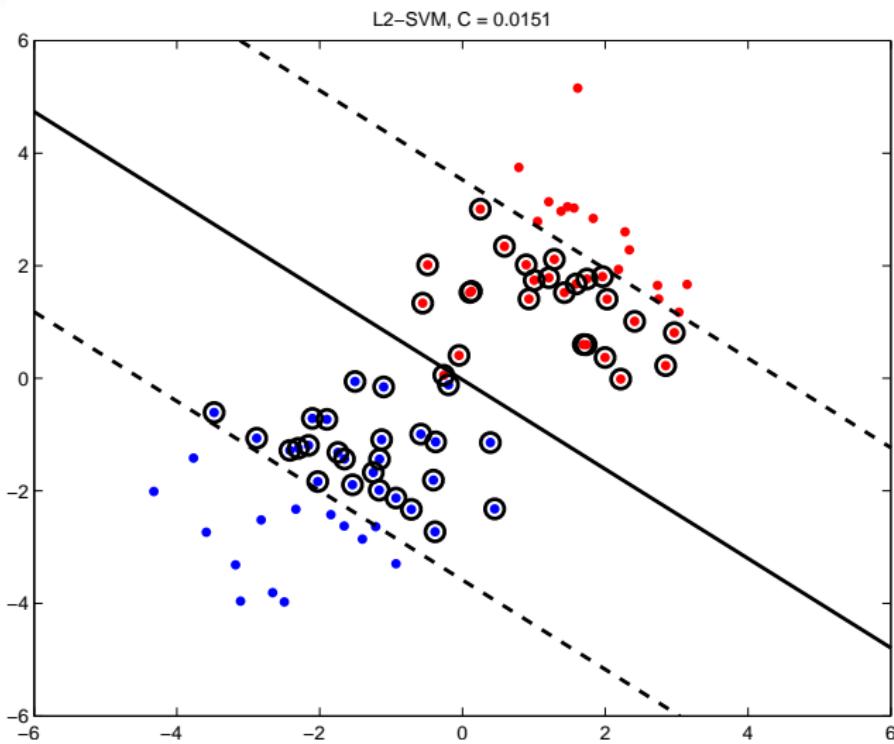
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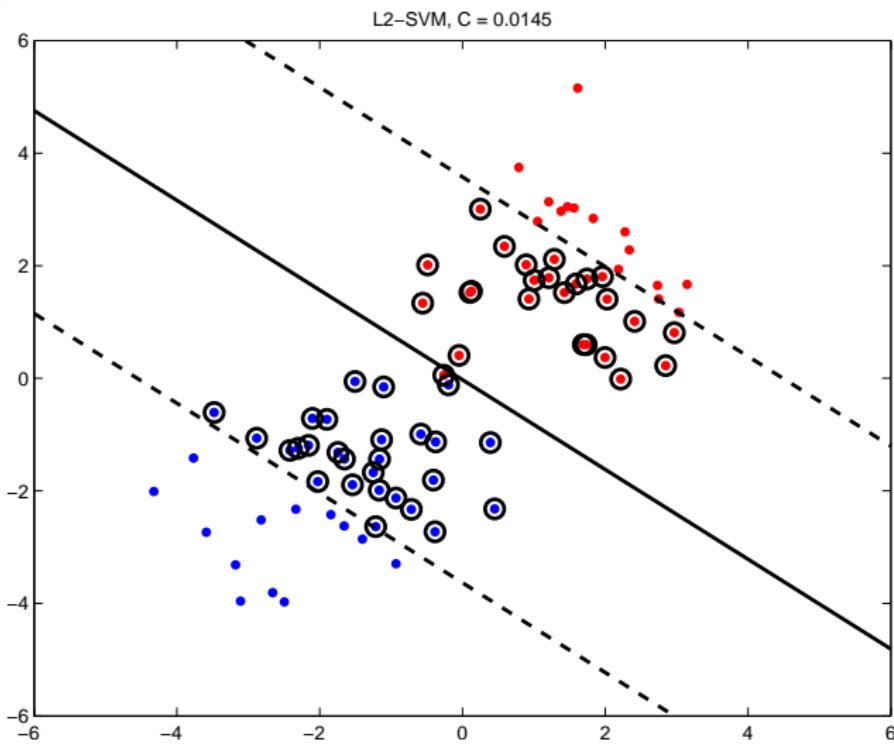
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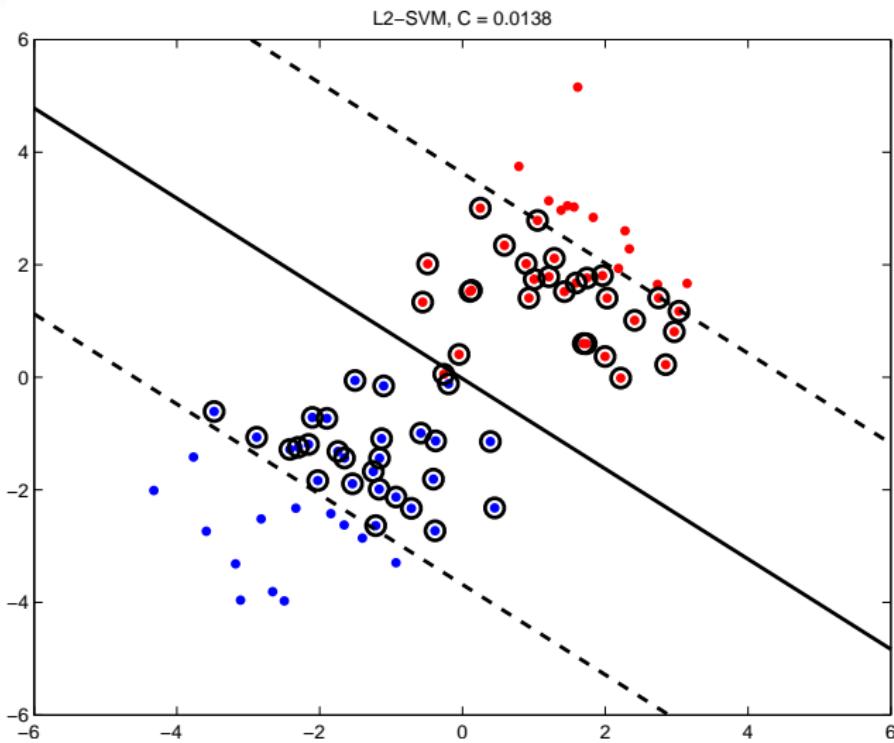
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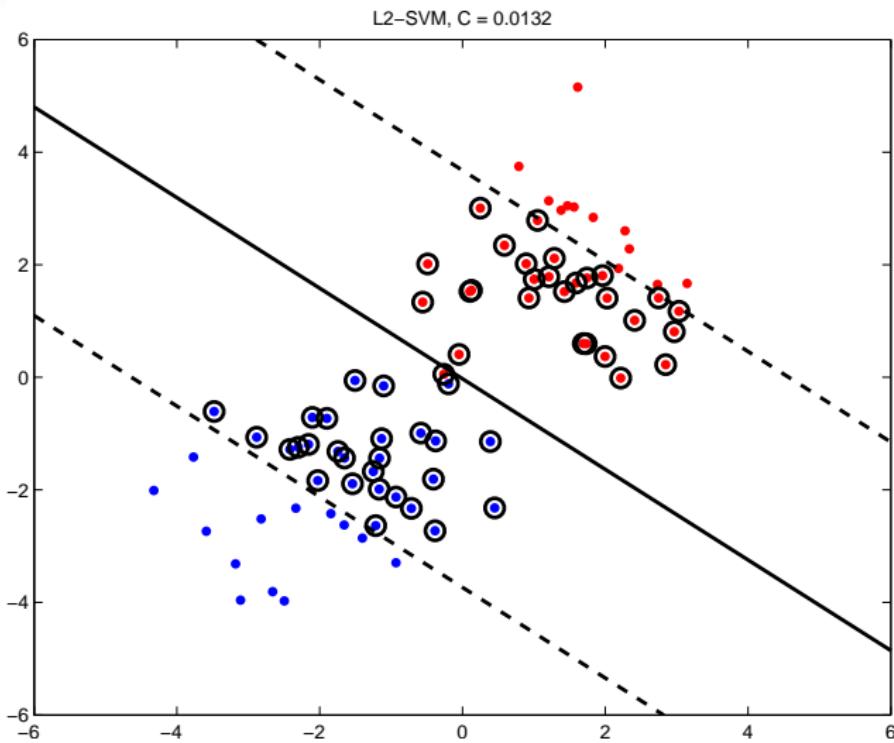
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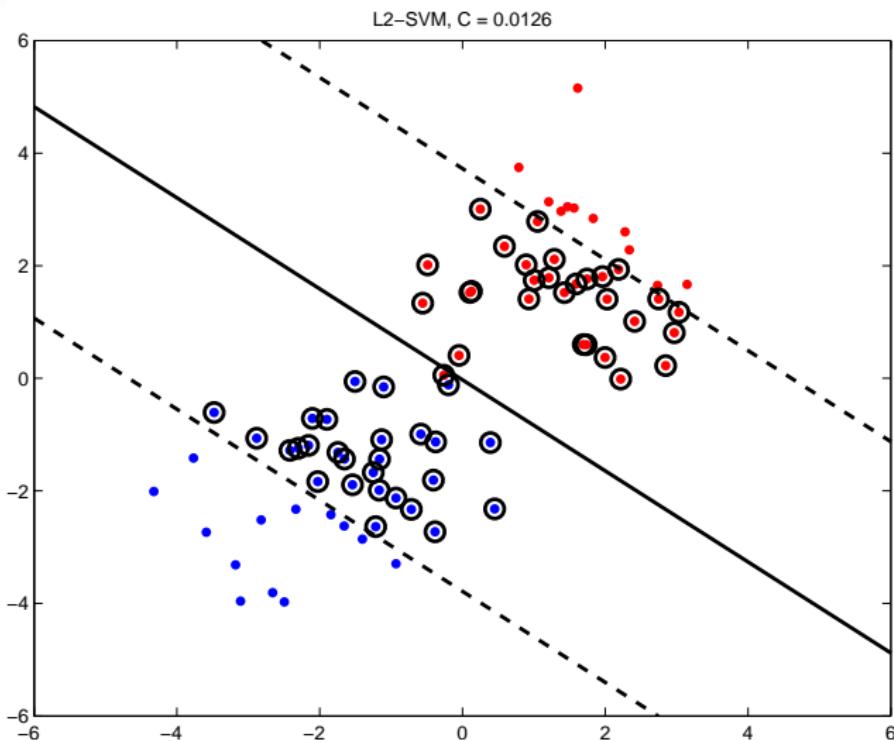
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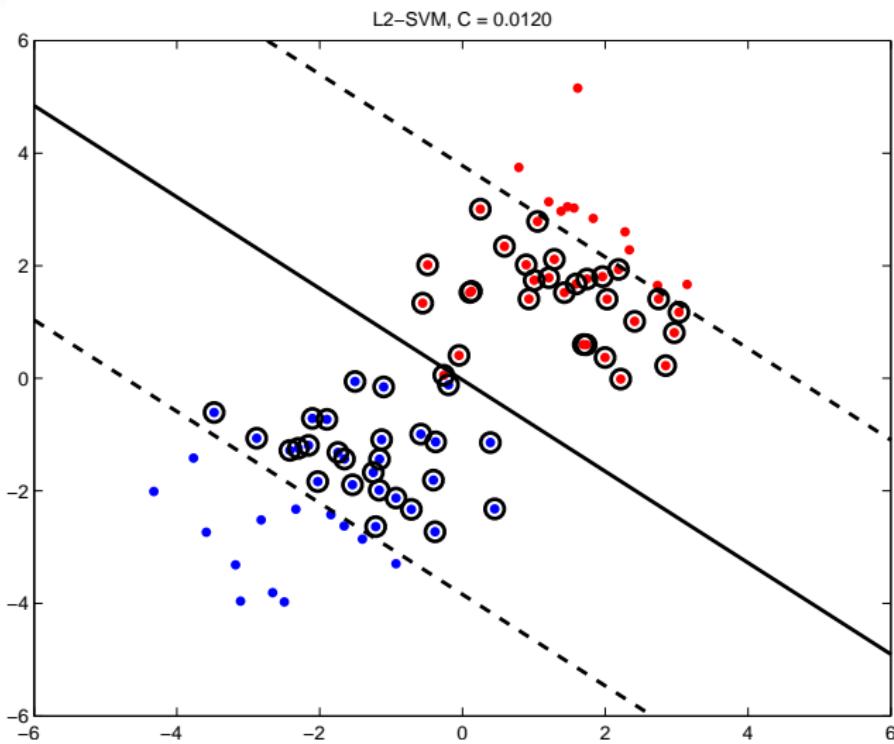
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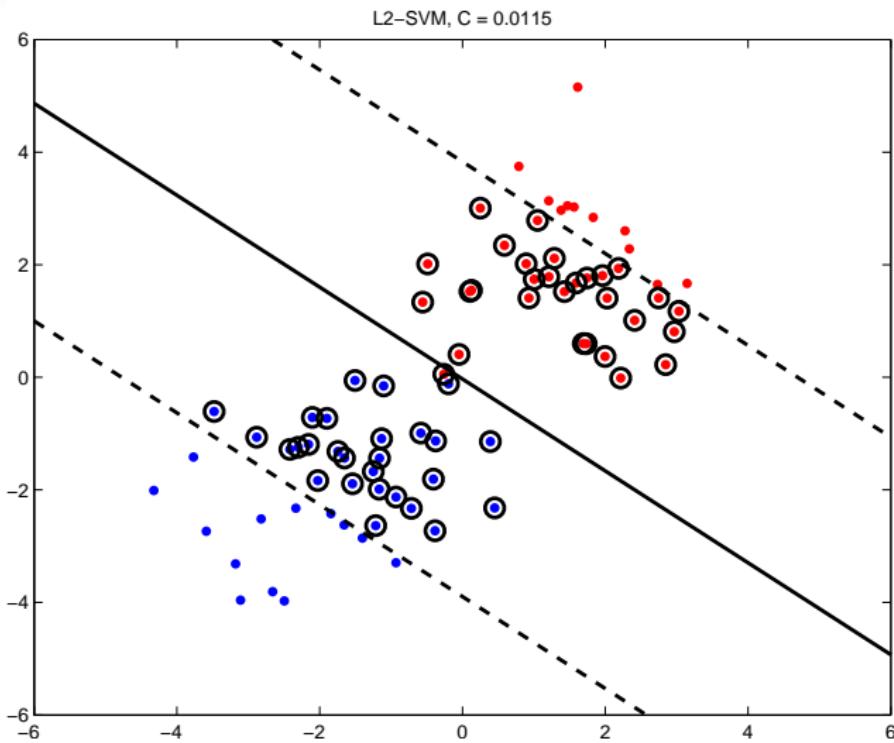
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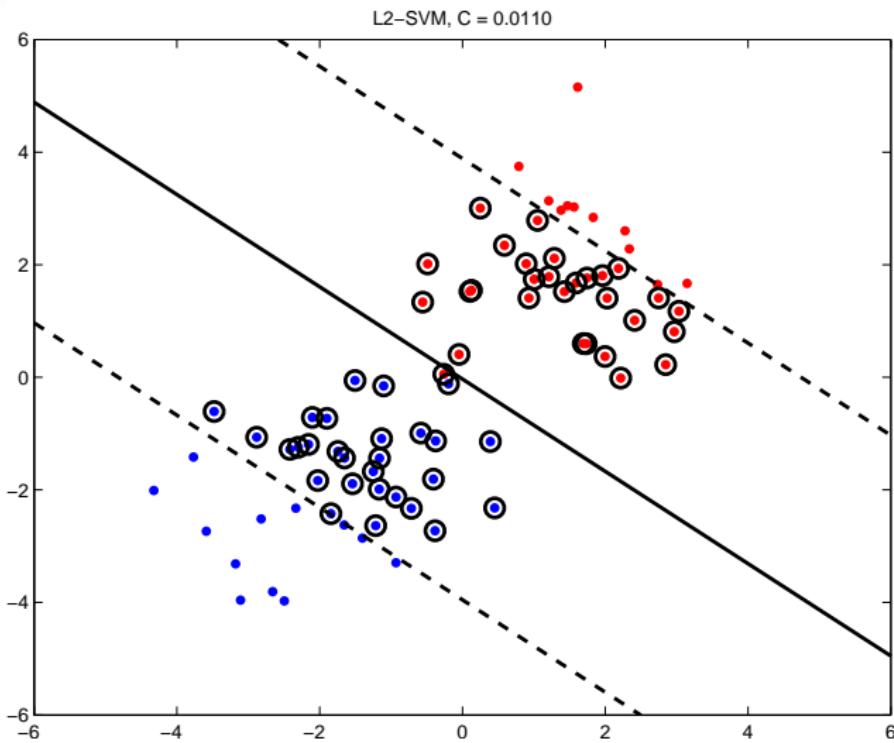
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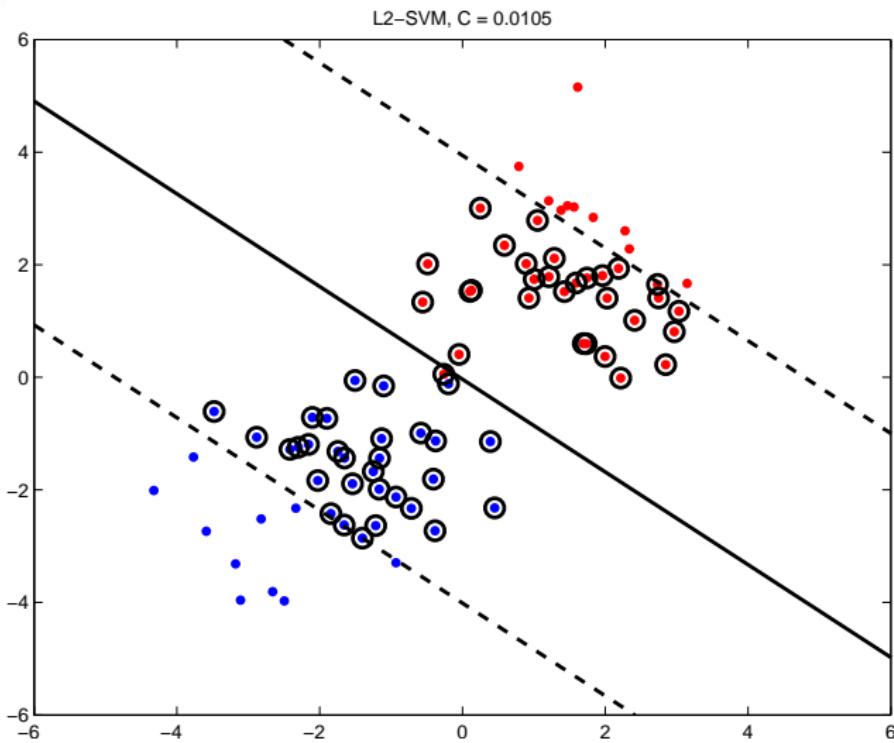
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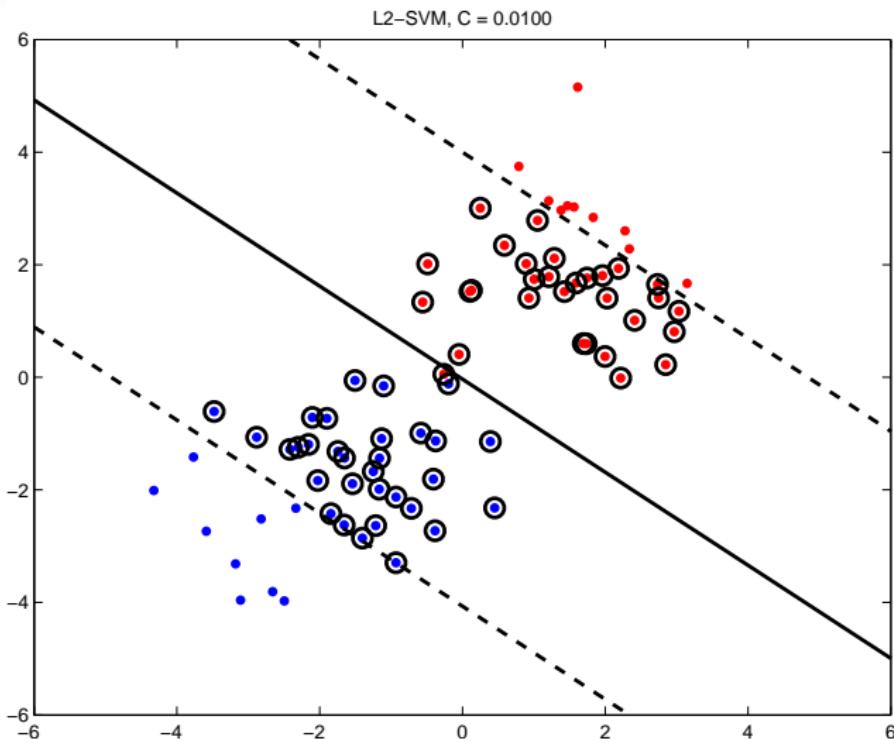
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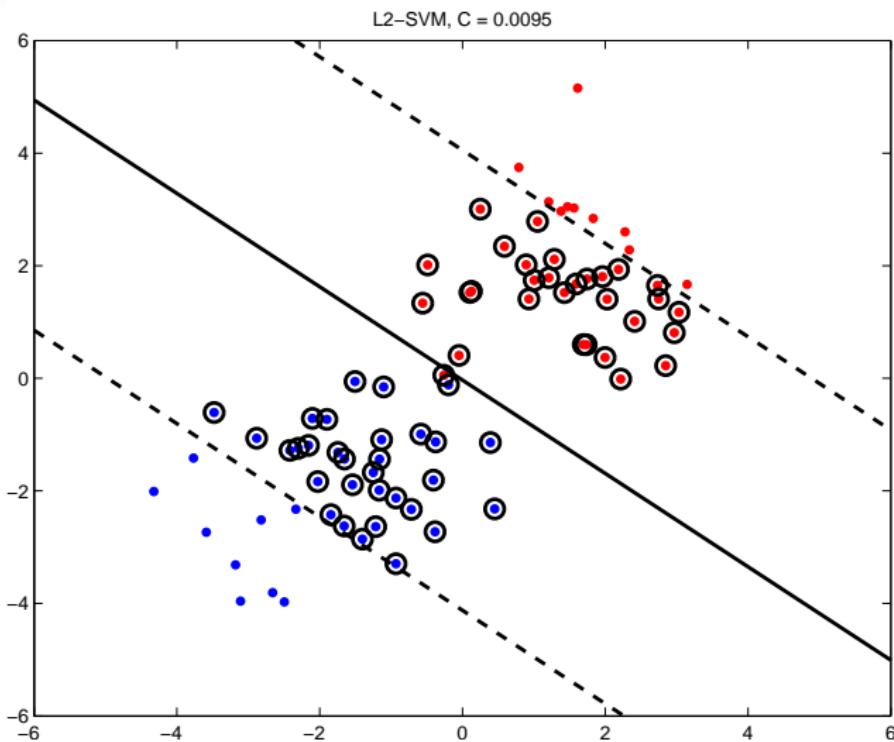
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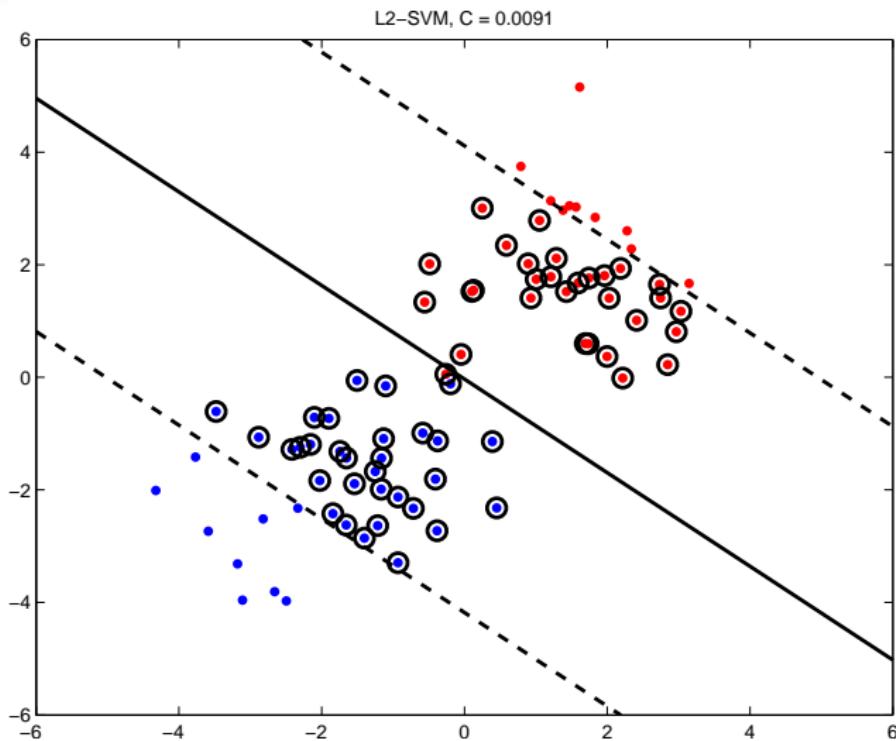
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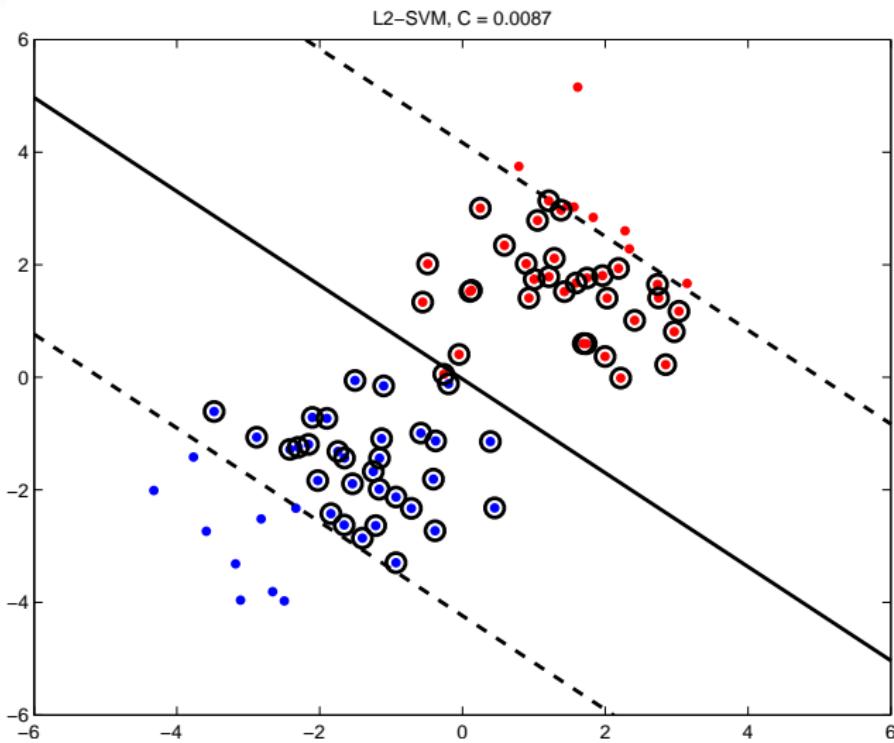
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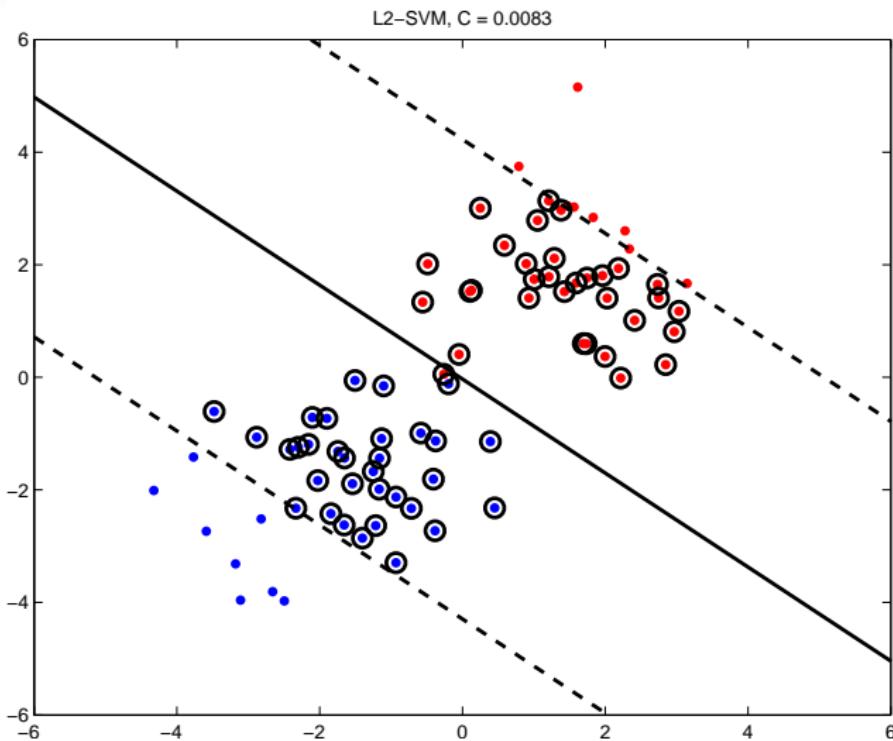
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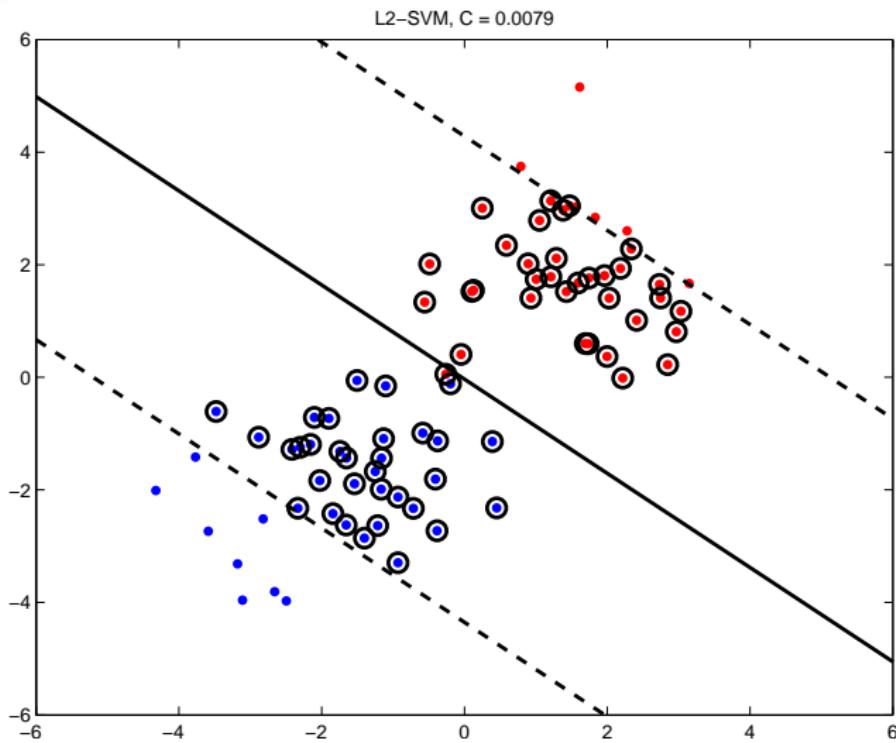
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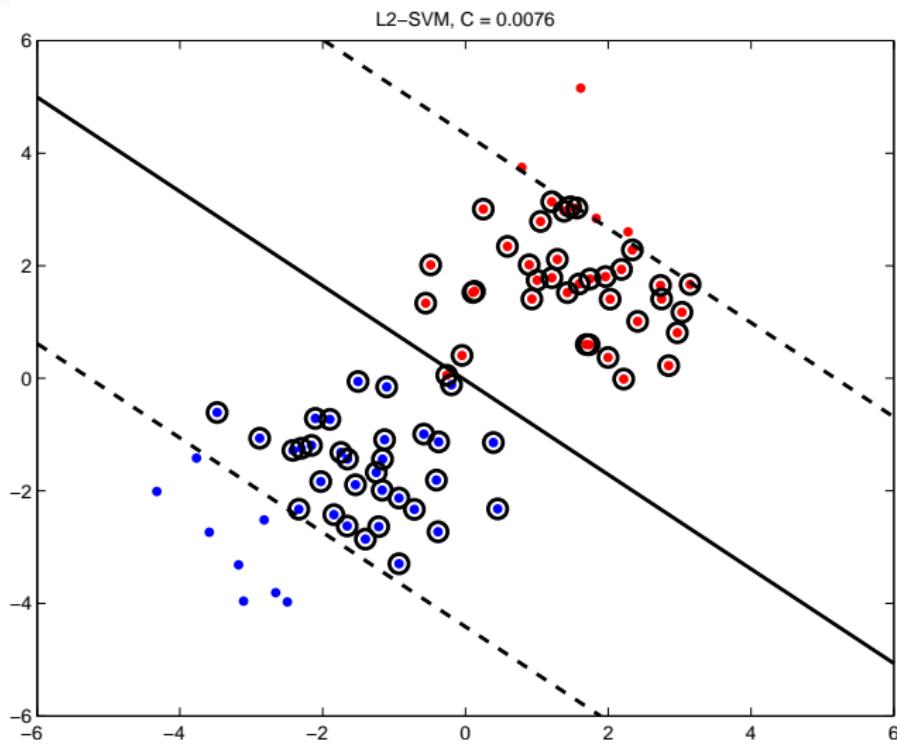
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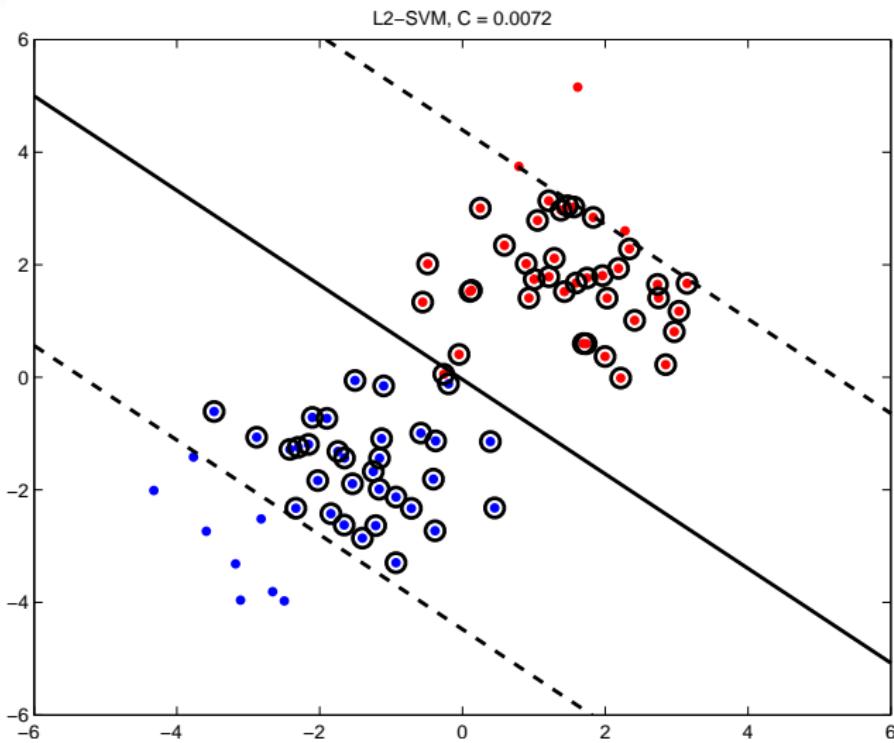
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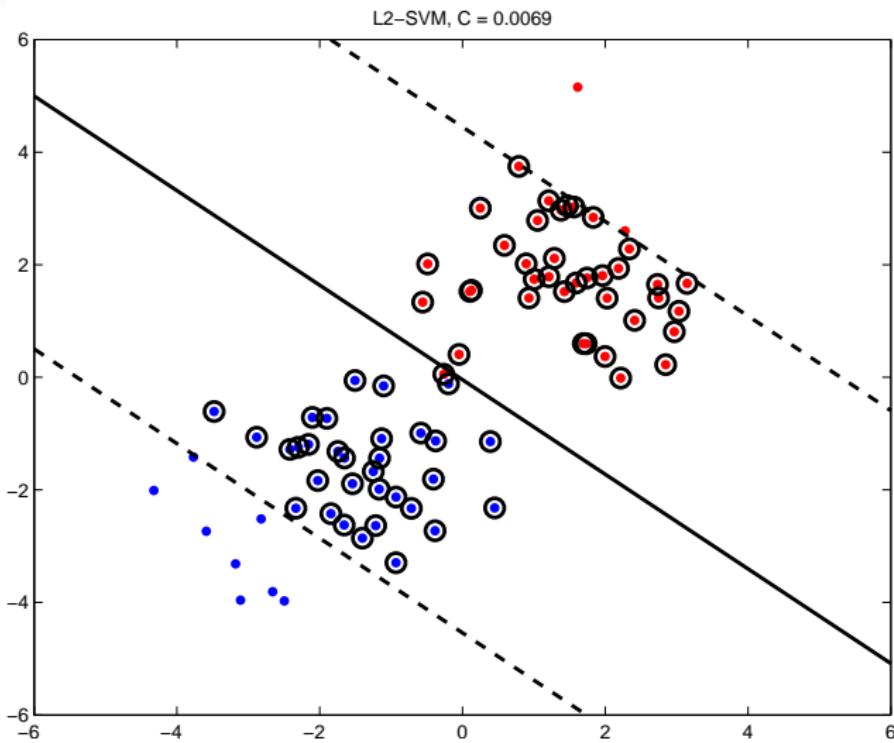
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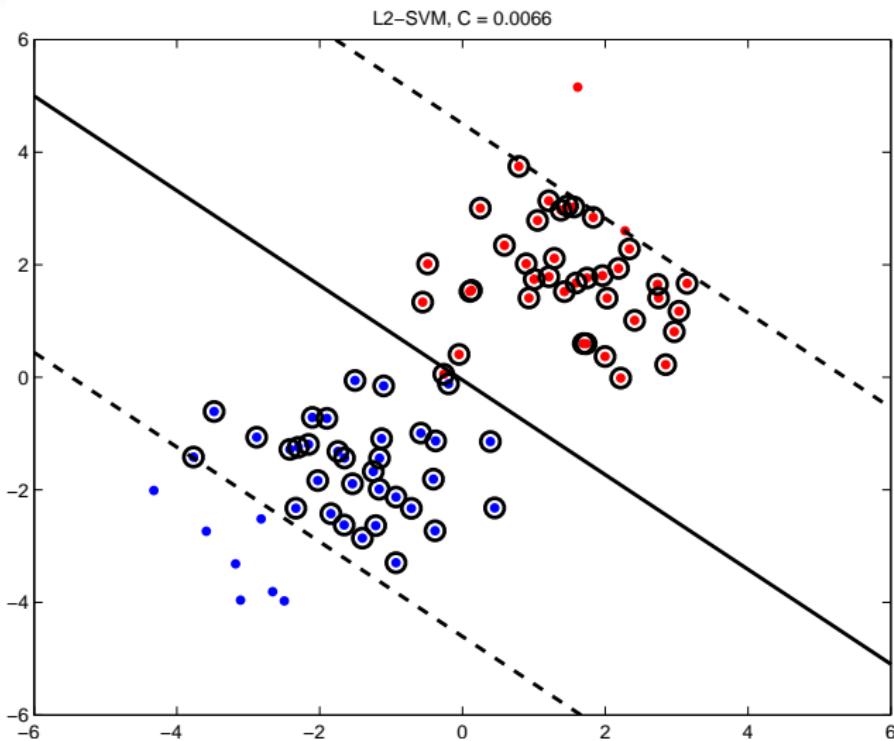
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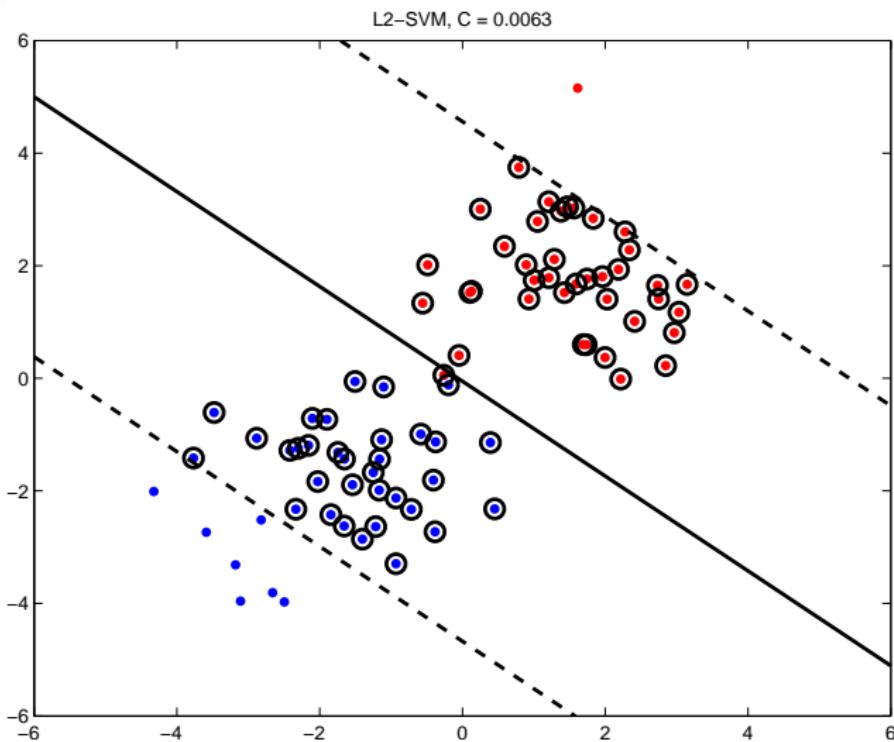
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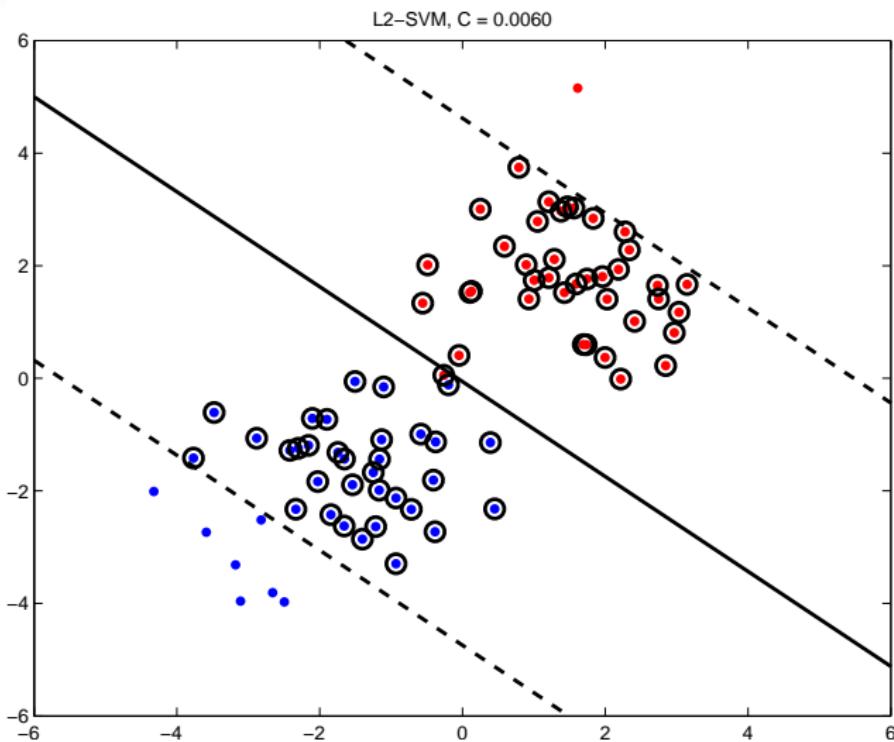
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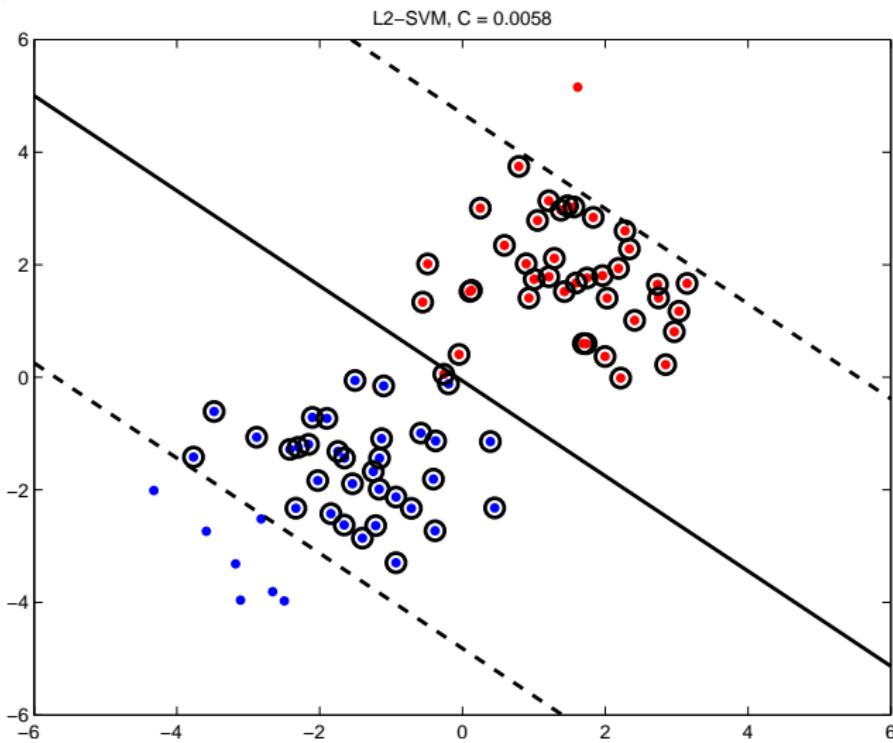
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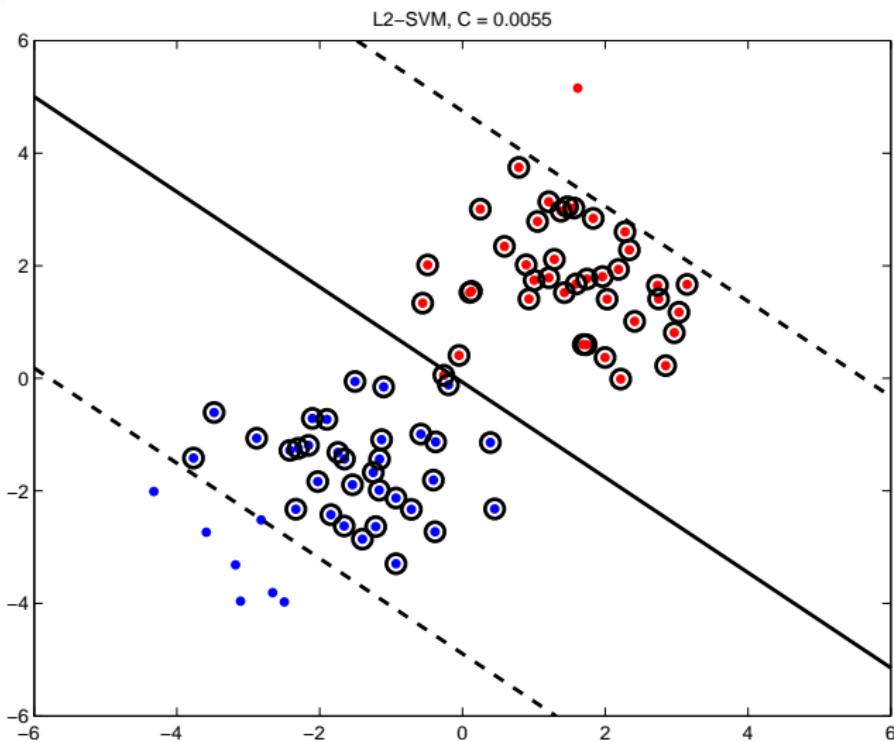
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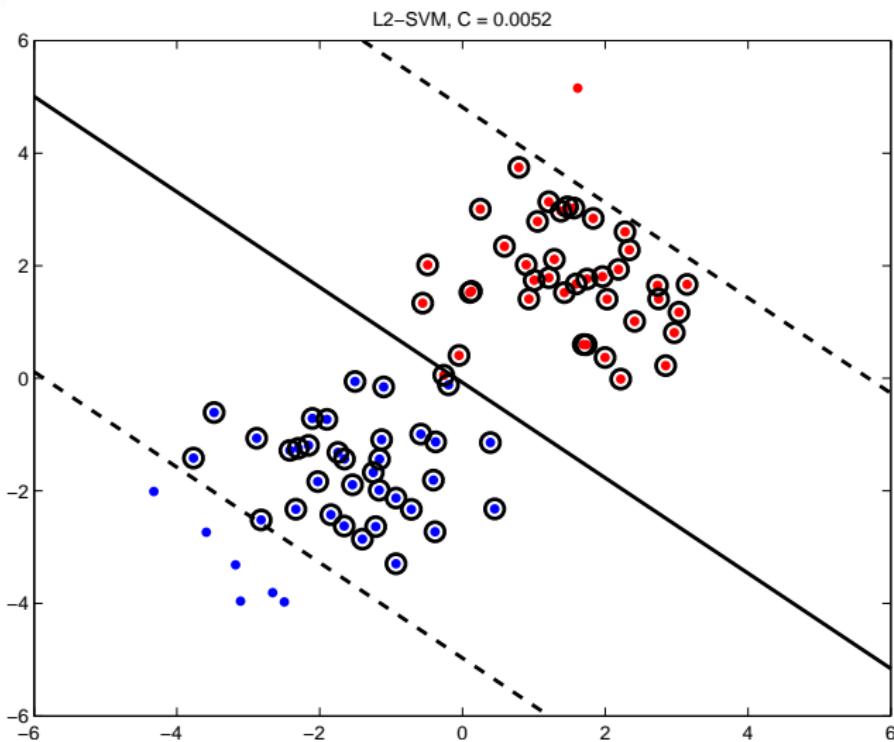
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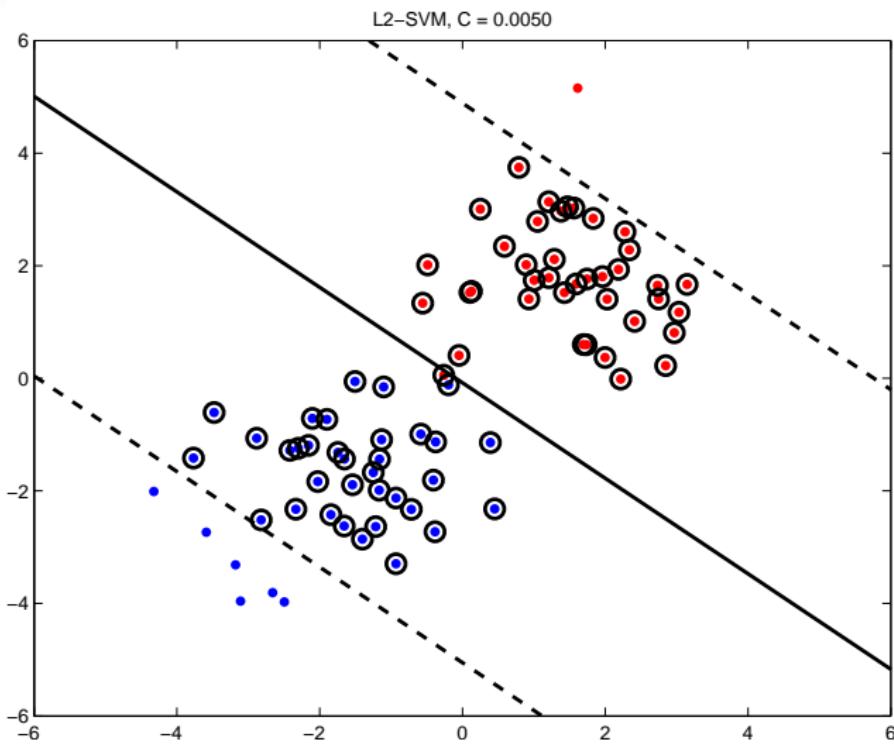
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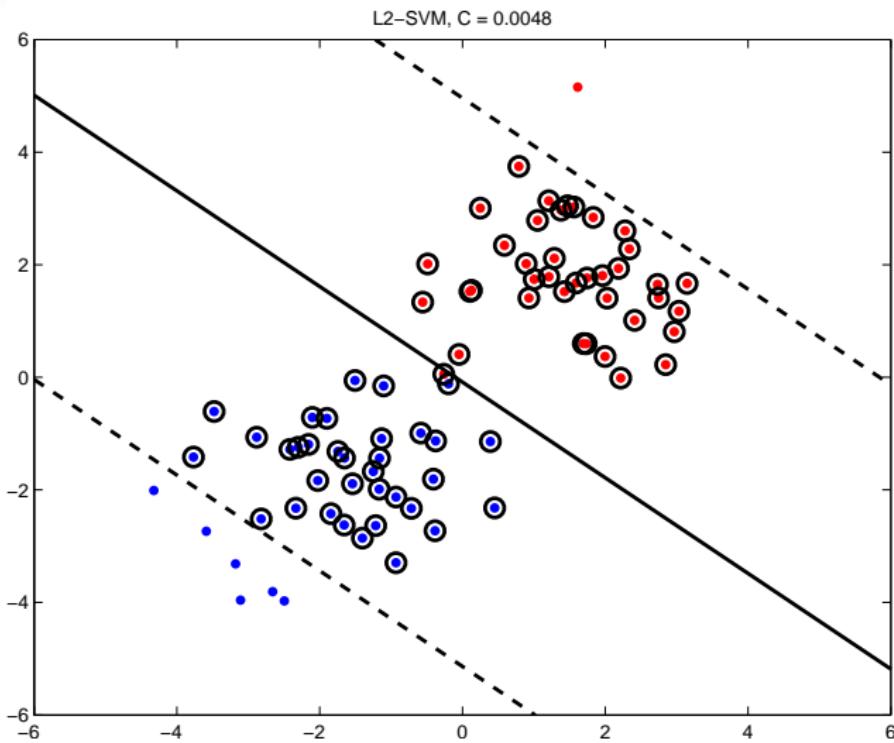
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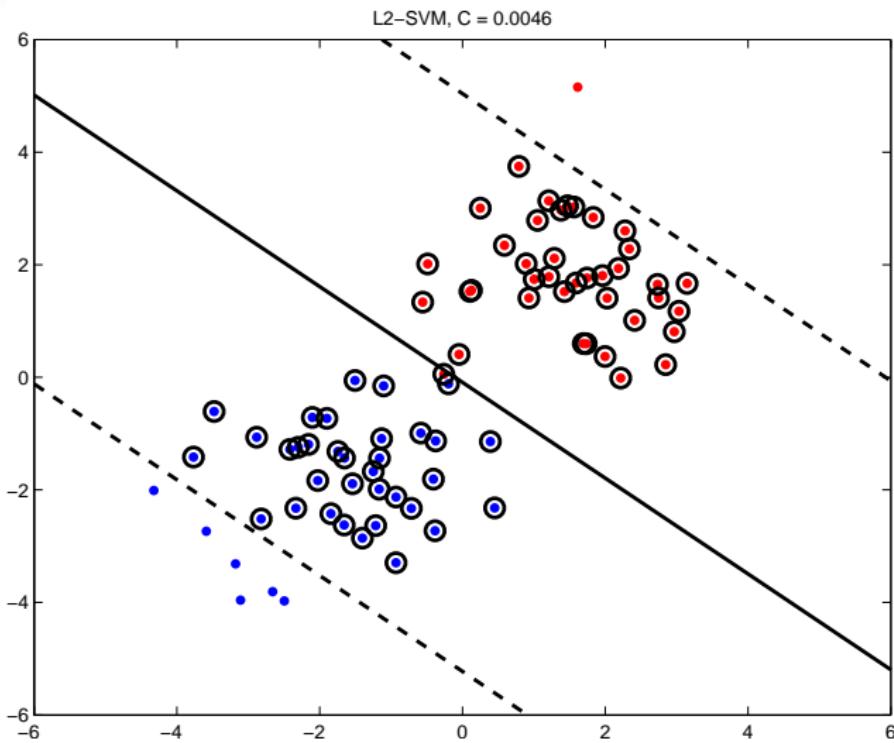
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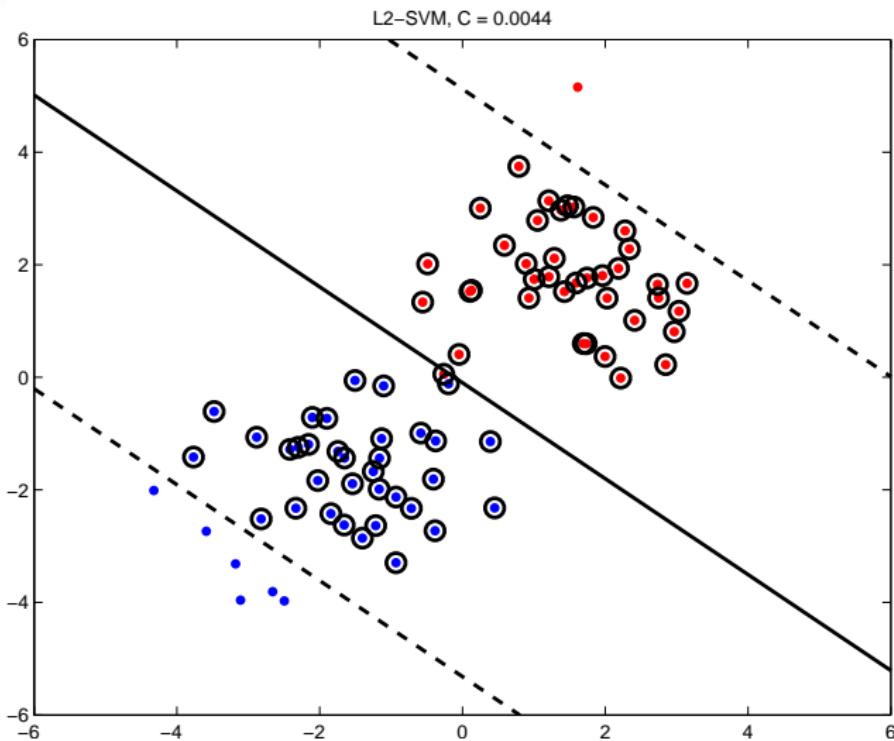
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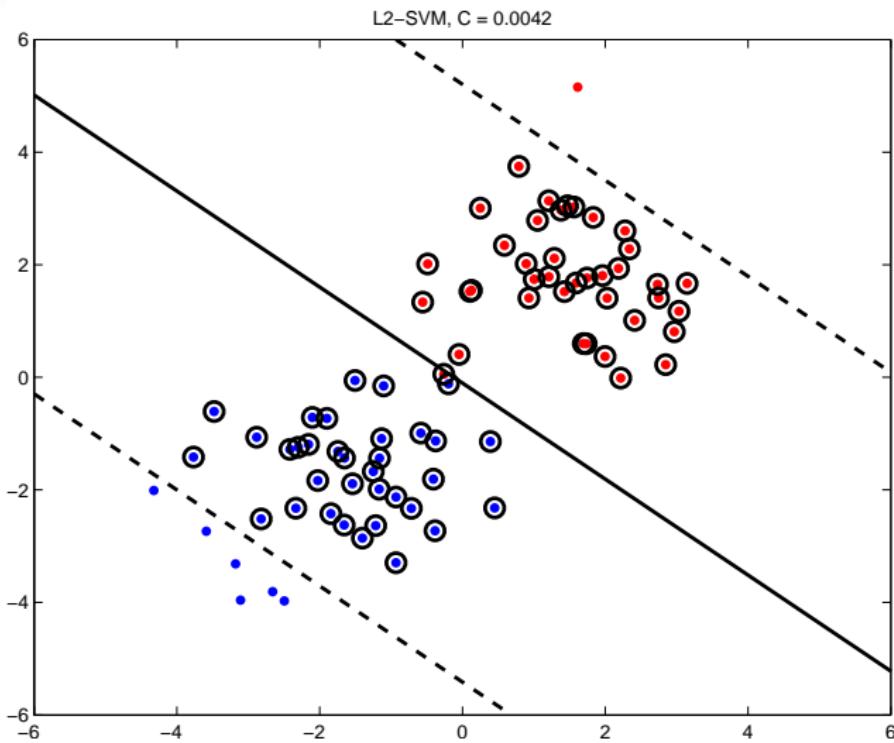
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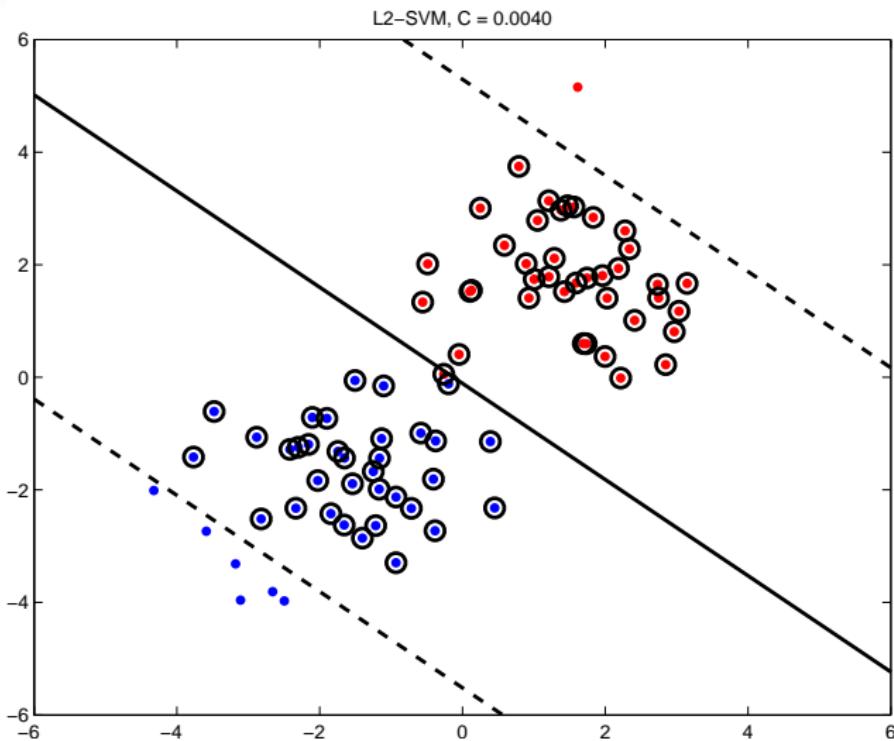
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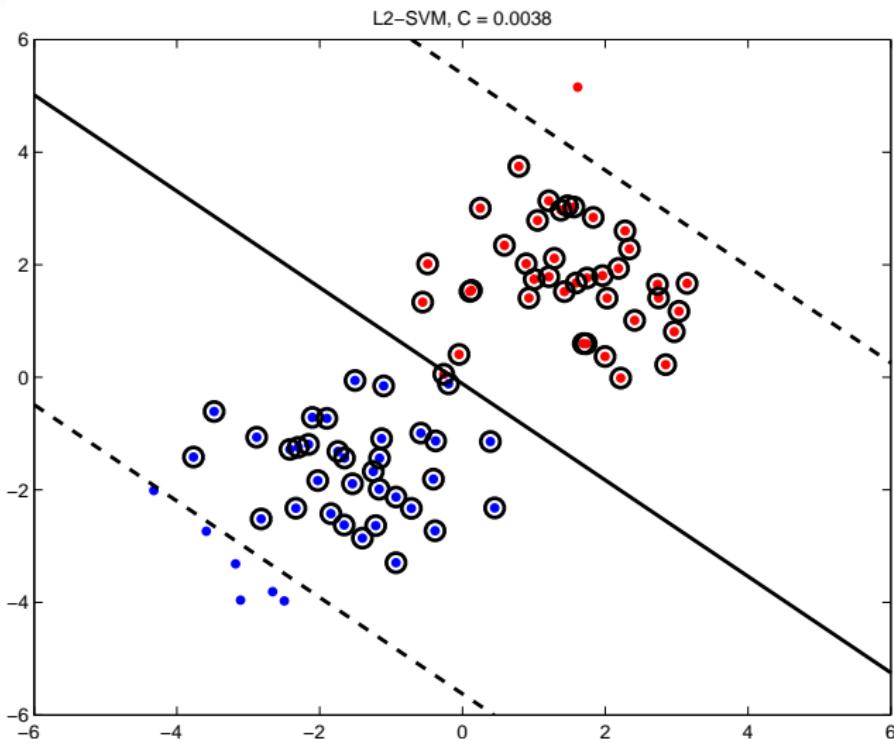
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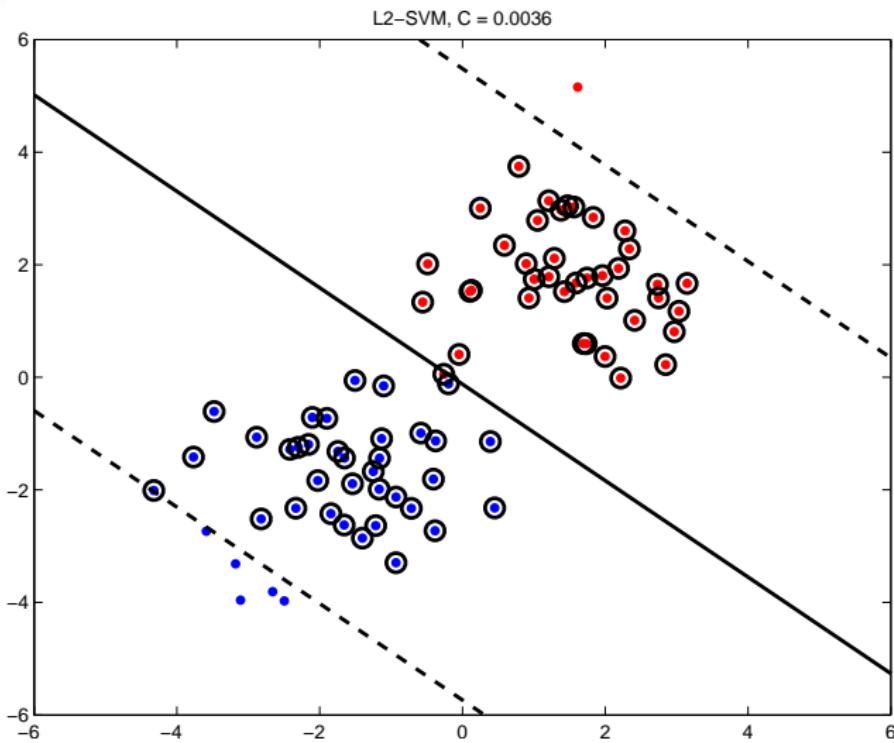
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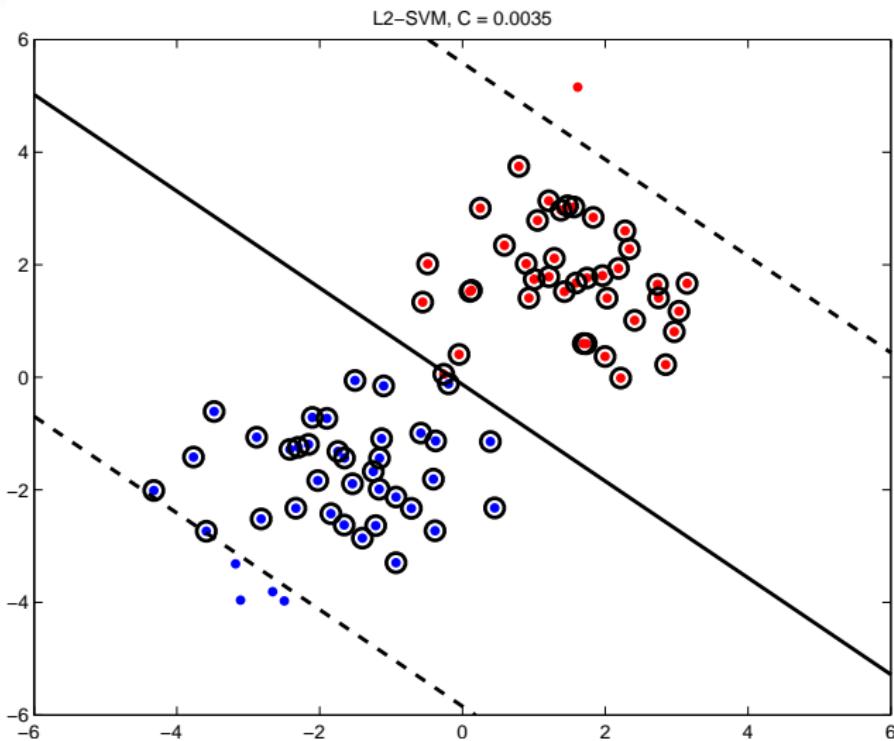
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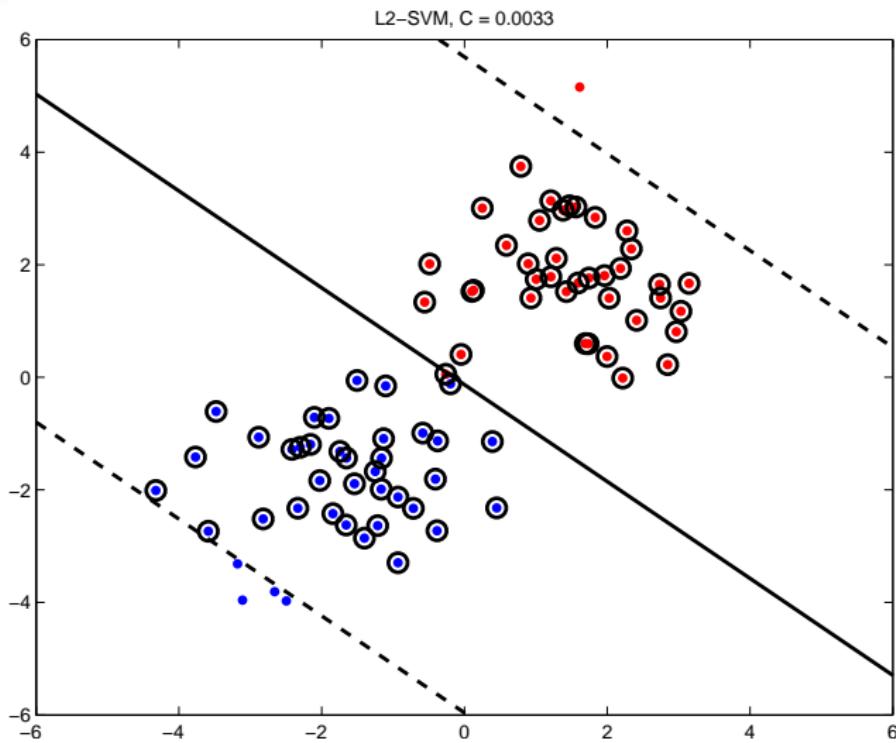
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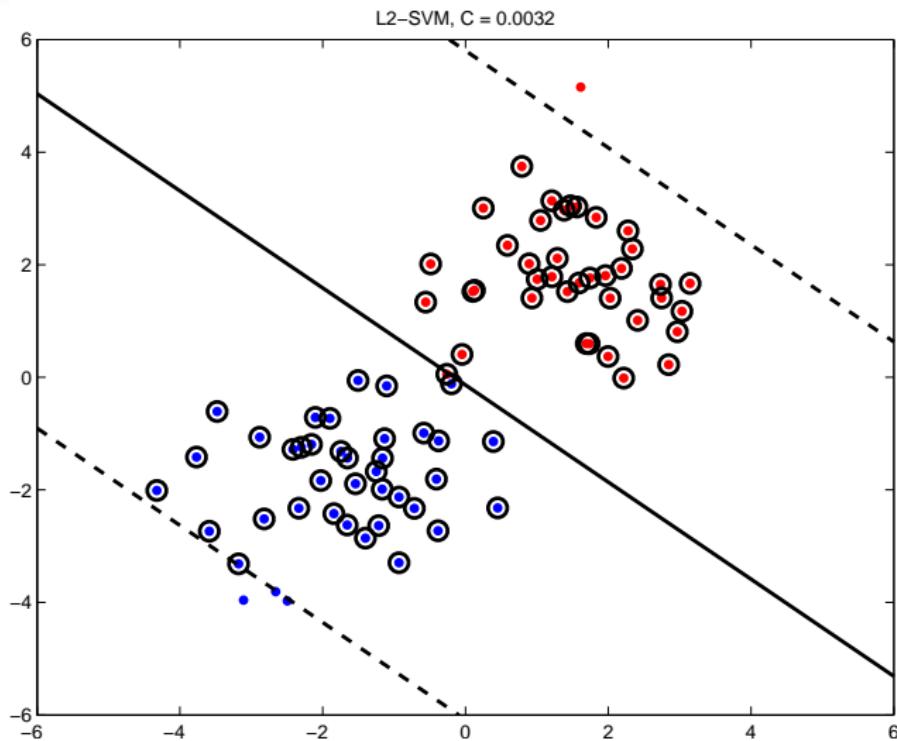
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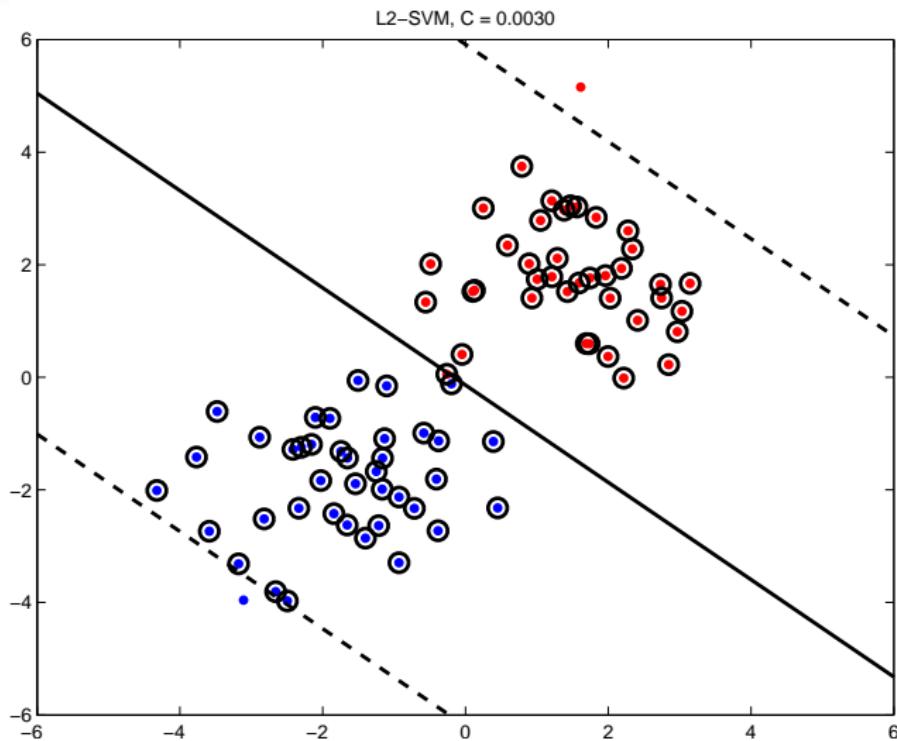
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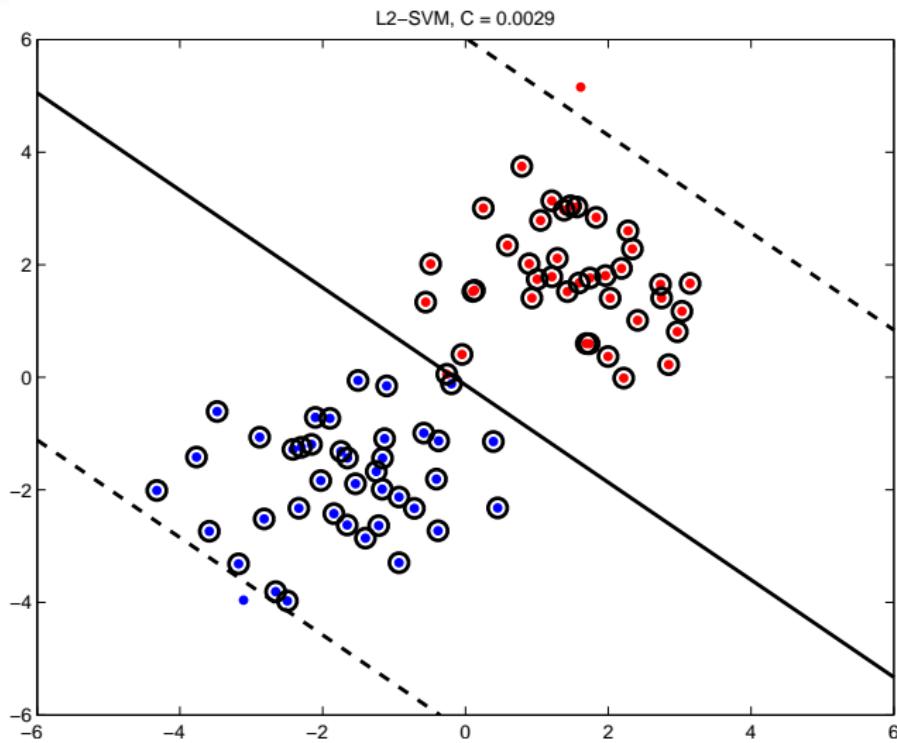
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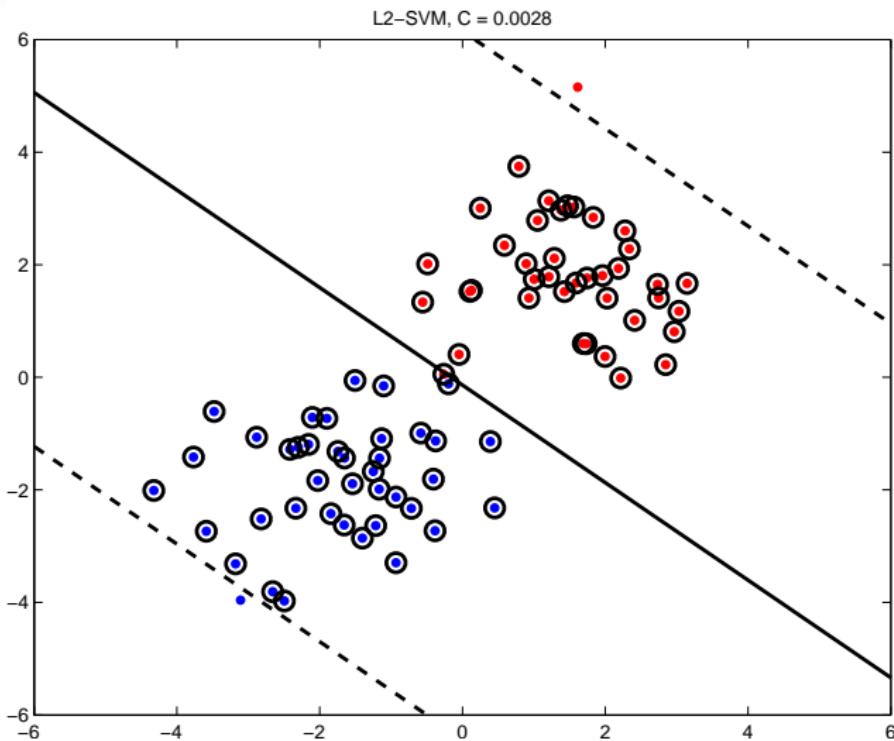
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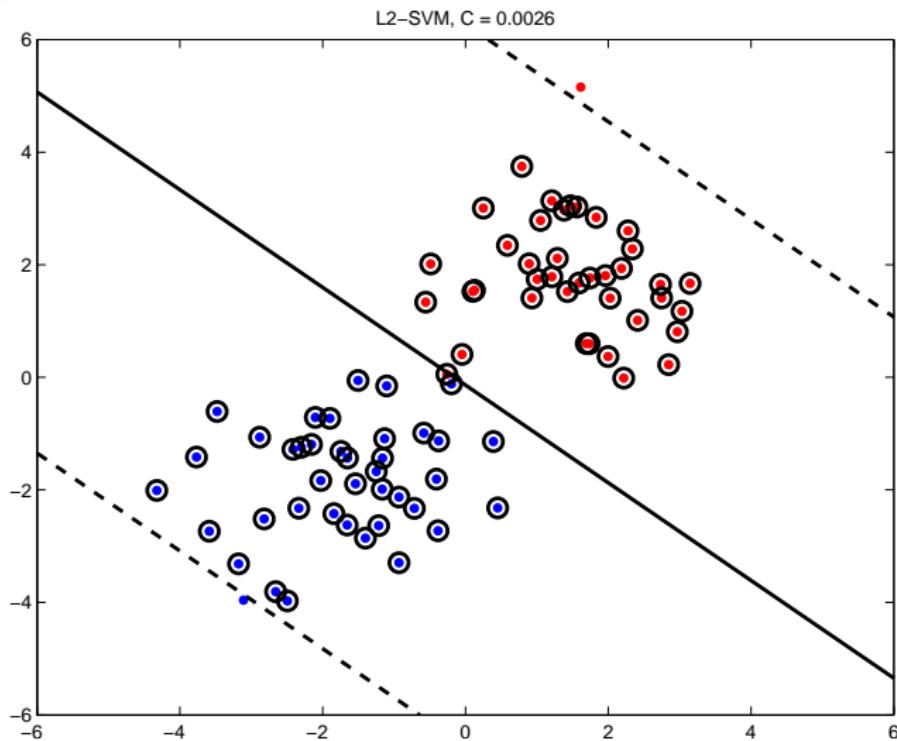
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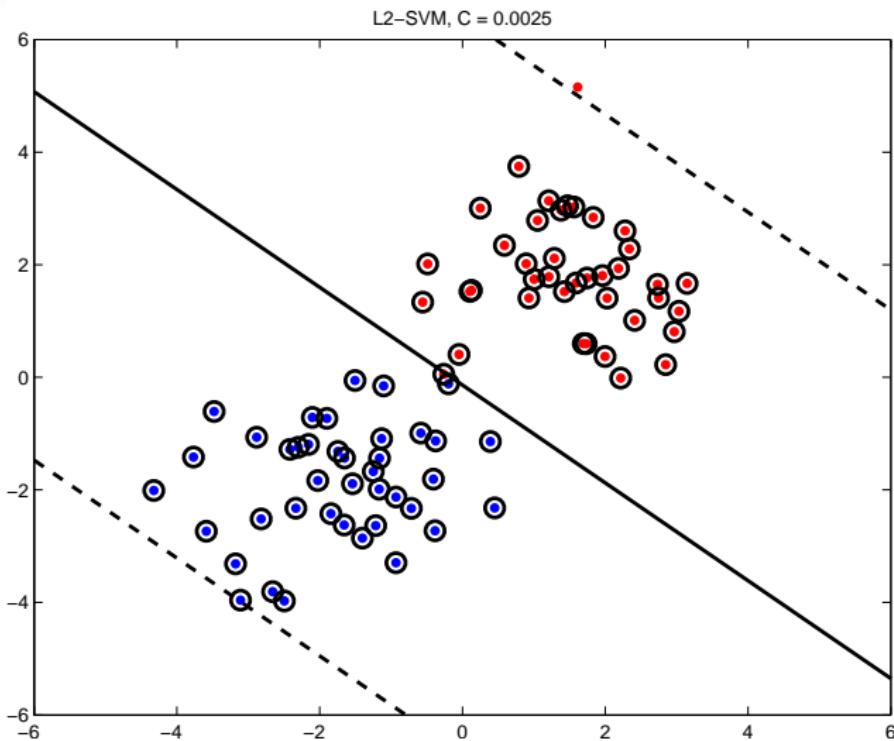
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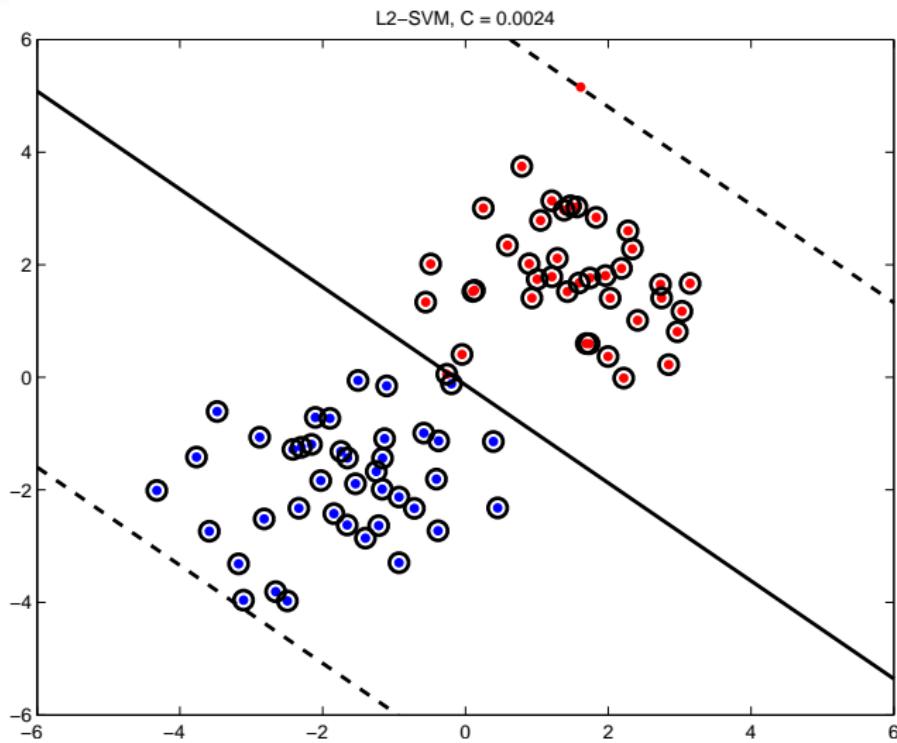
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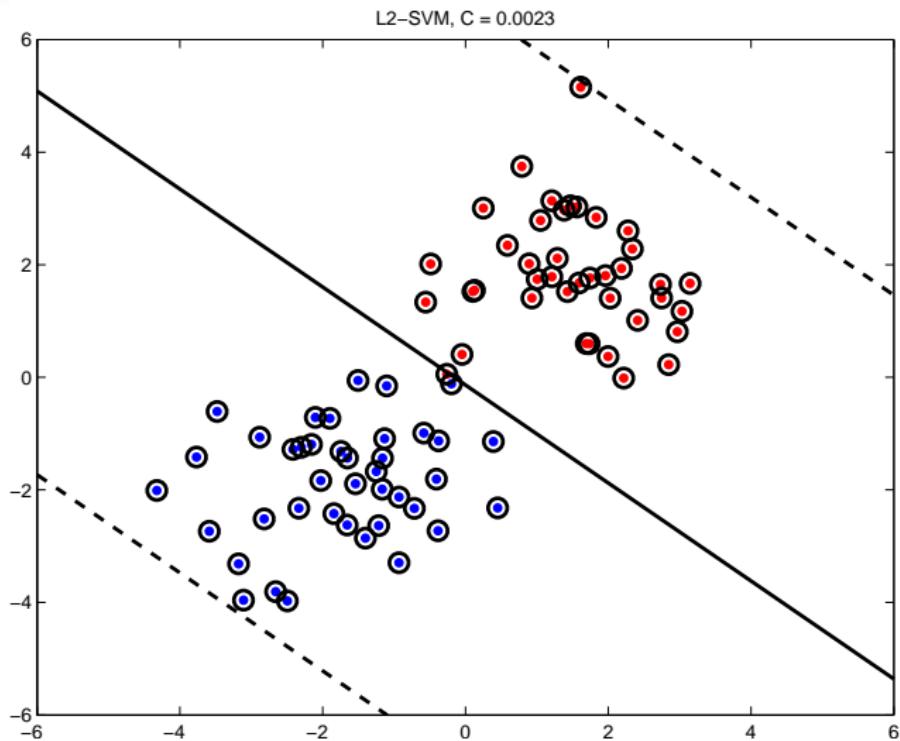
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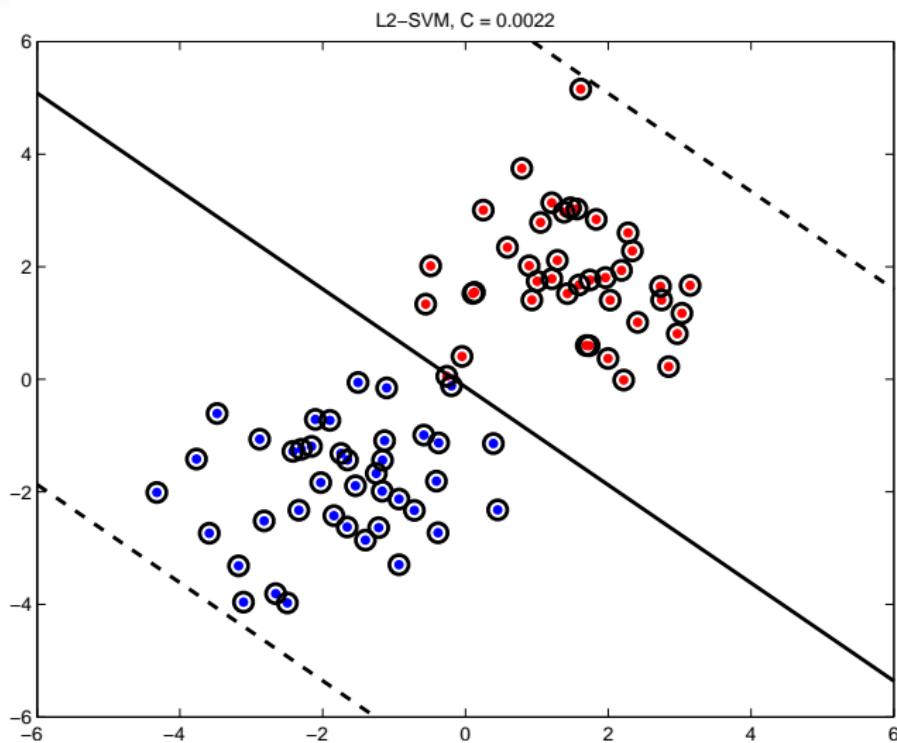
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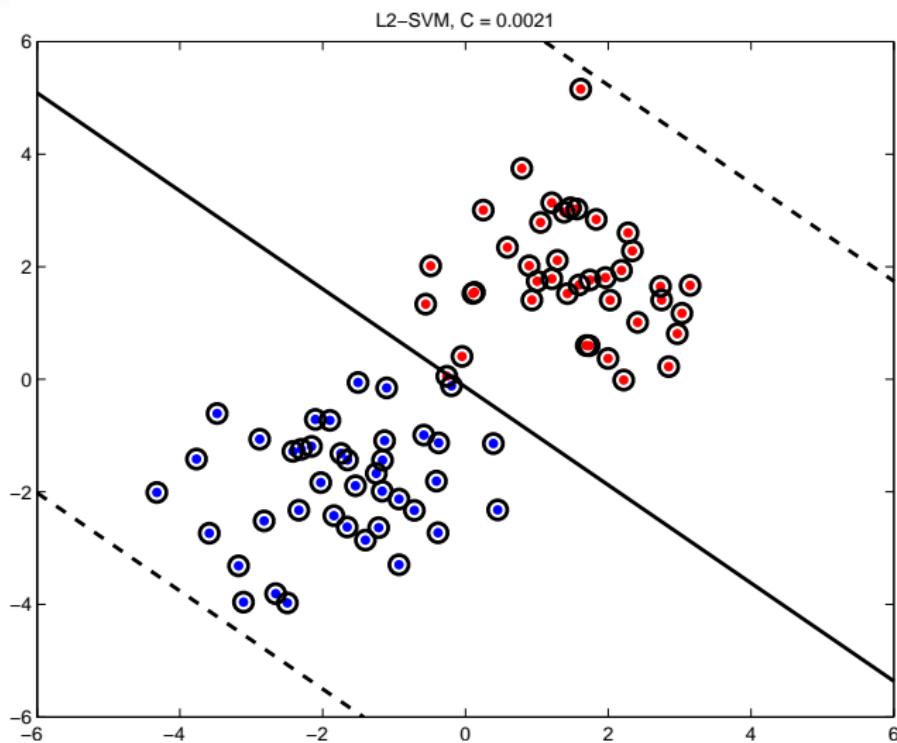
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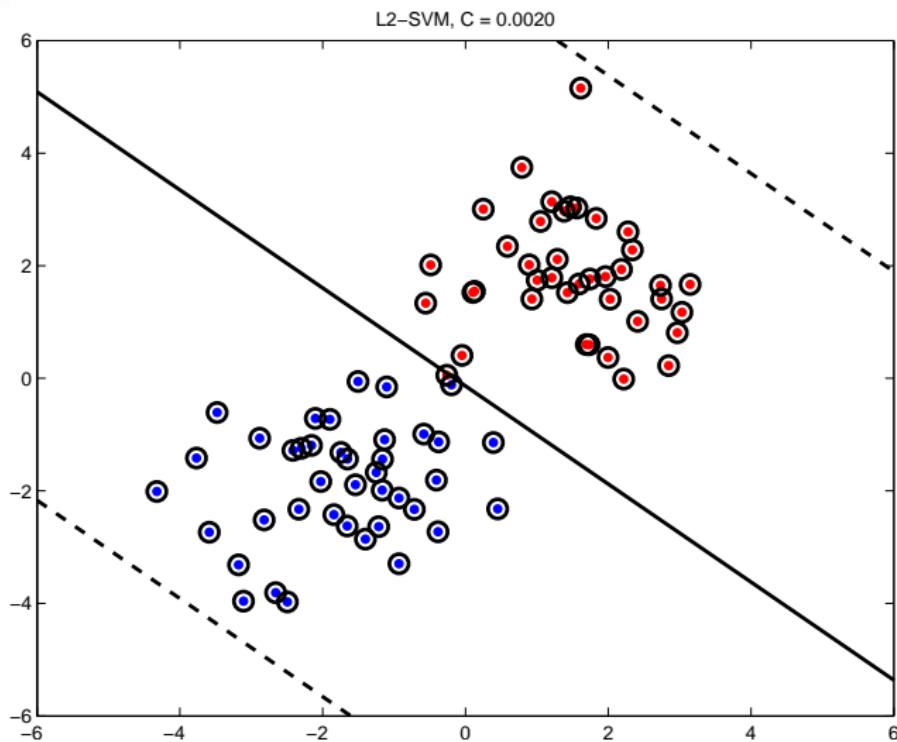
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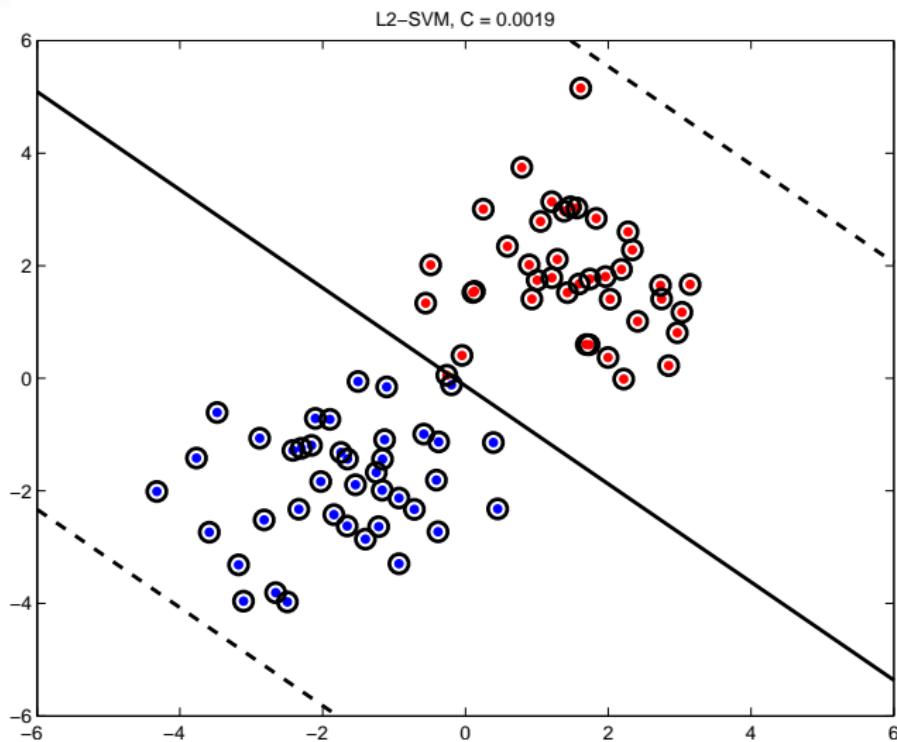
## L2-SVM Example



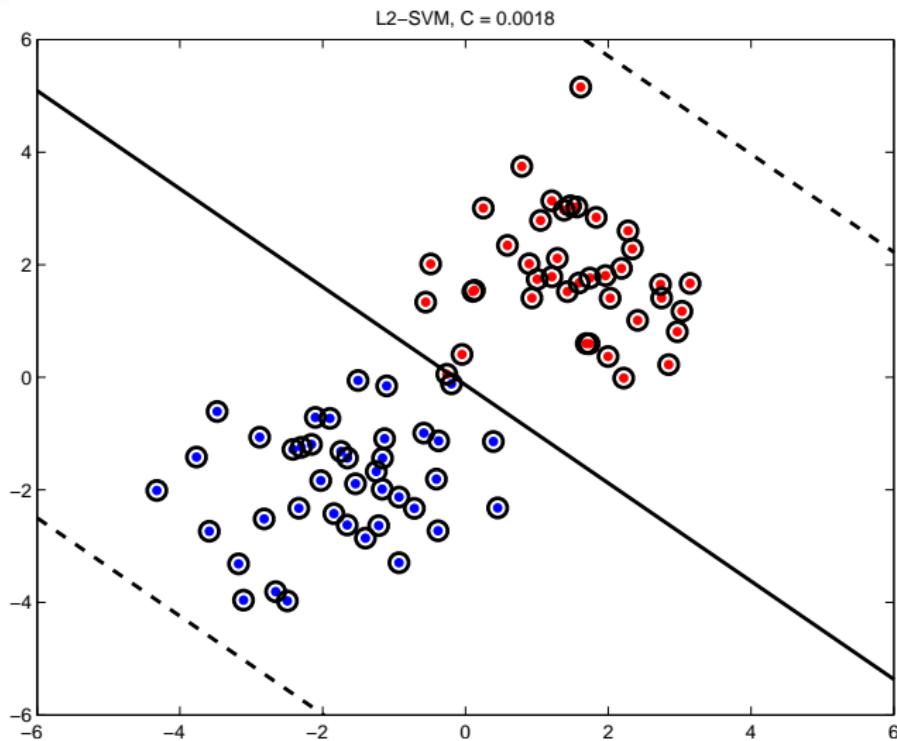
## L2-SVM Example



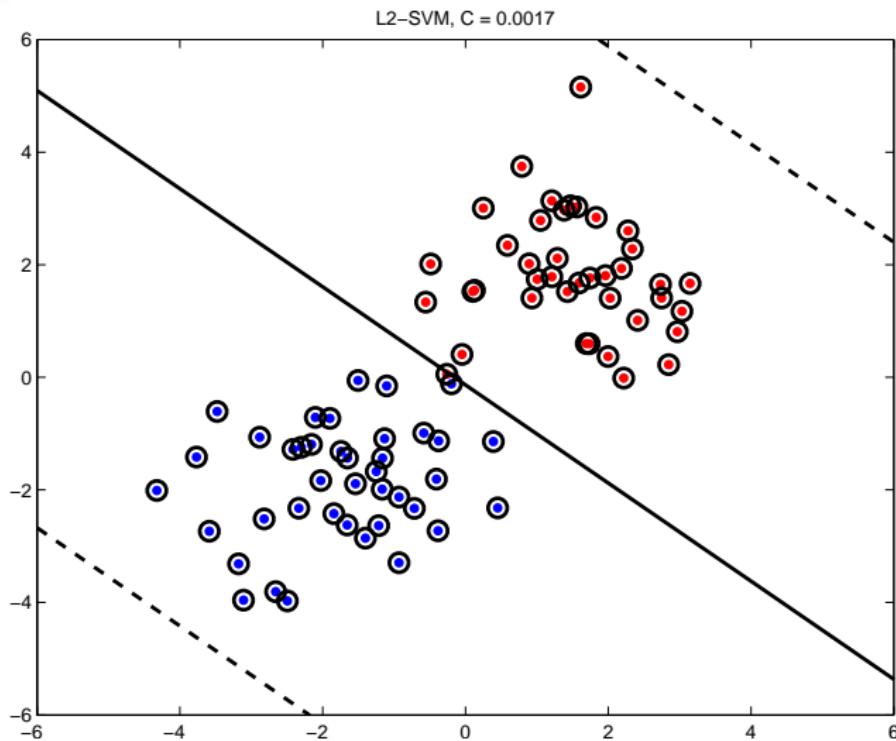
# L2-SVM Example



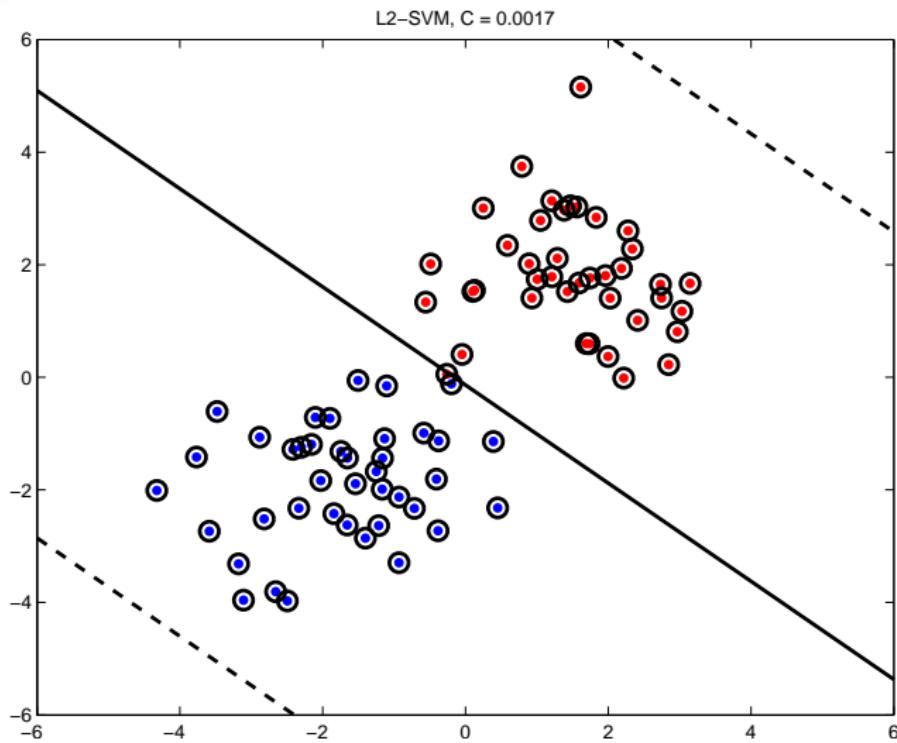
## L2-SVM Example



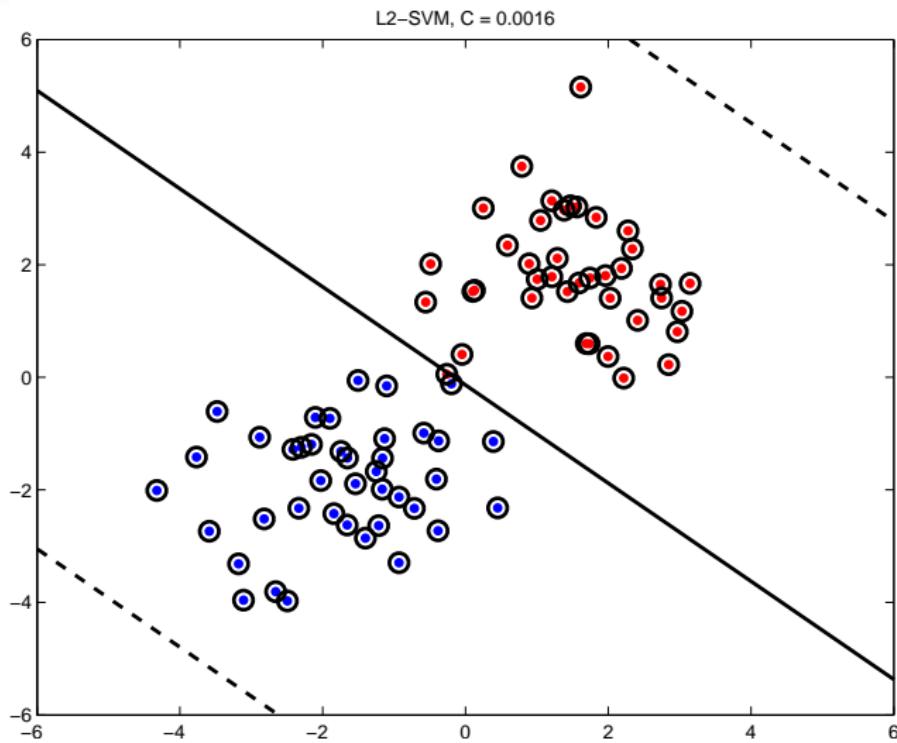
## L2-SVM Example



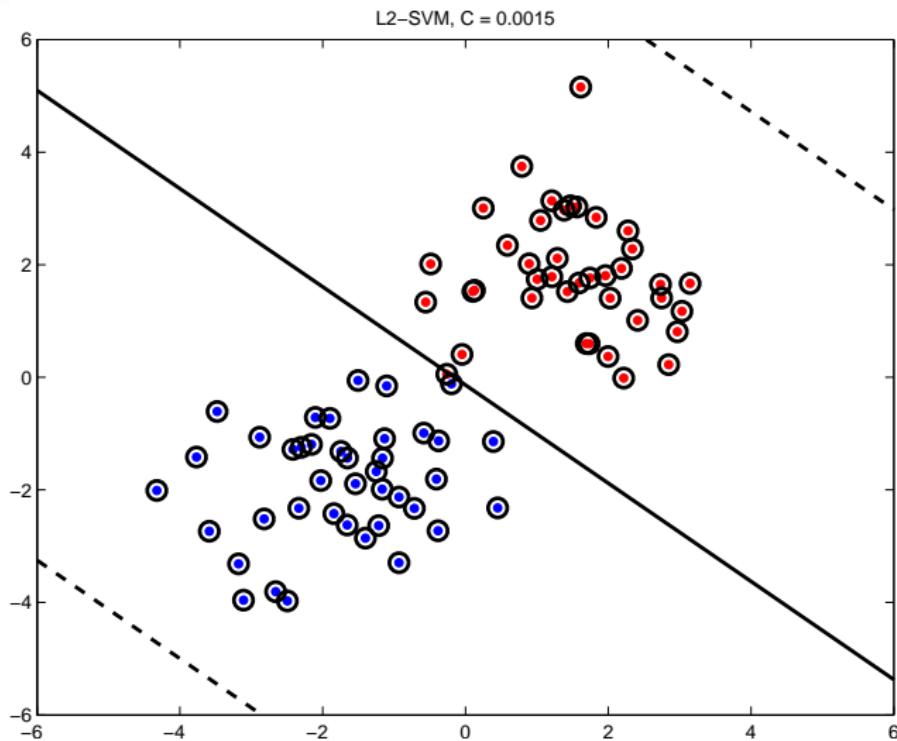
## L2-SVM Example



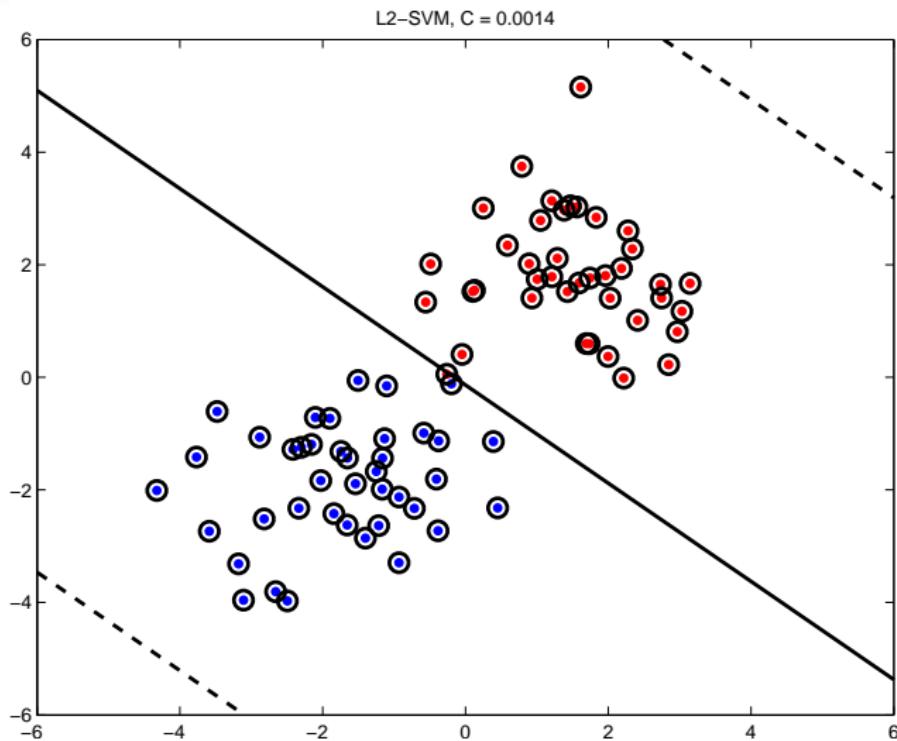
## L2-SVM Example



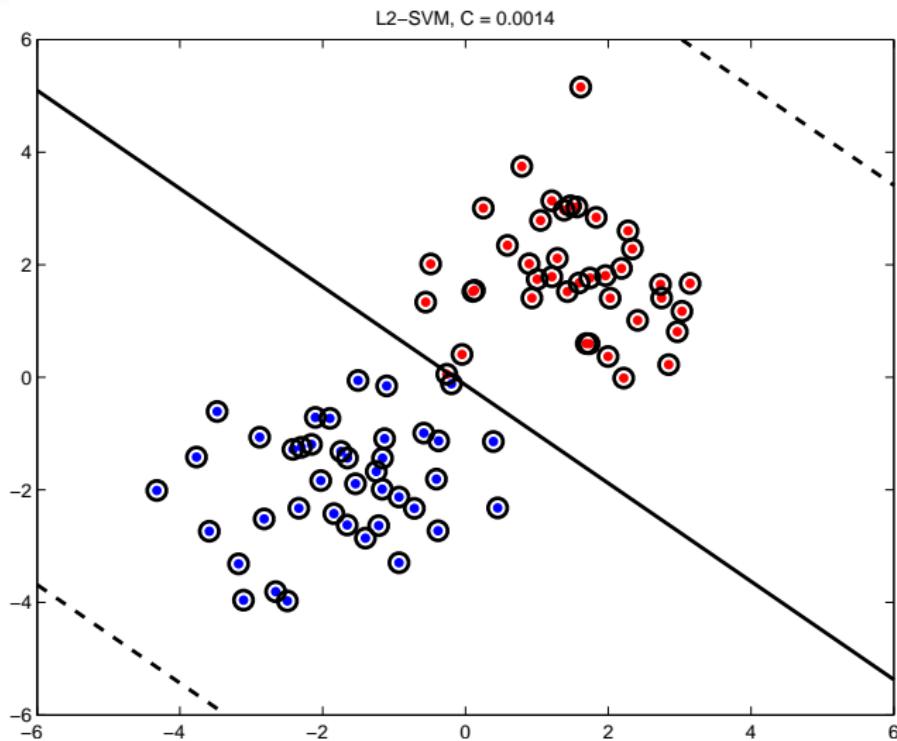
## L2-SVM Example



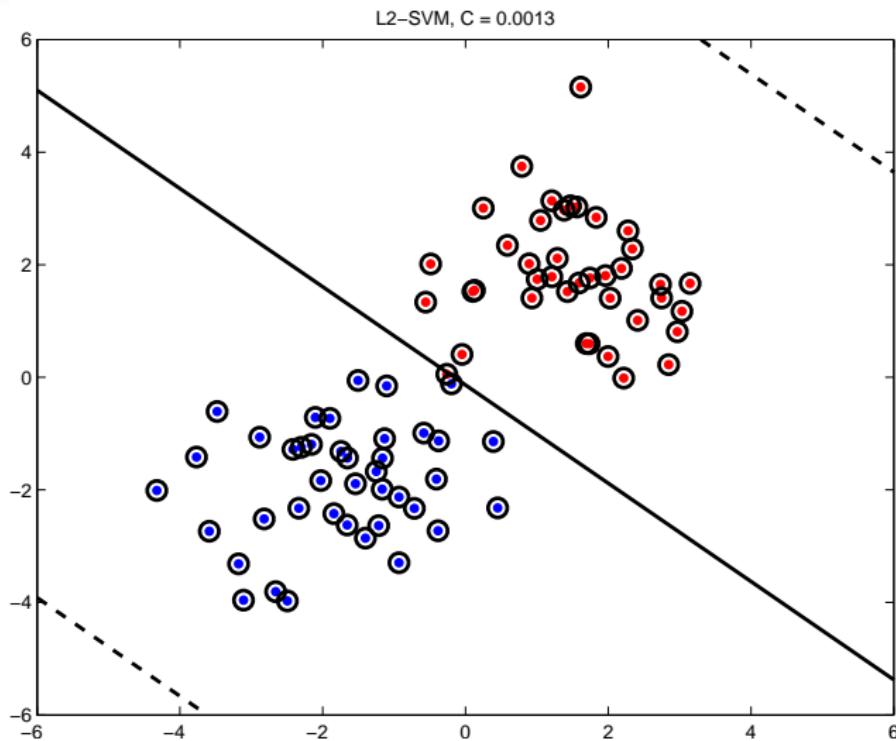
## L2-SVM Example



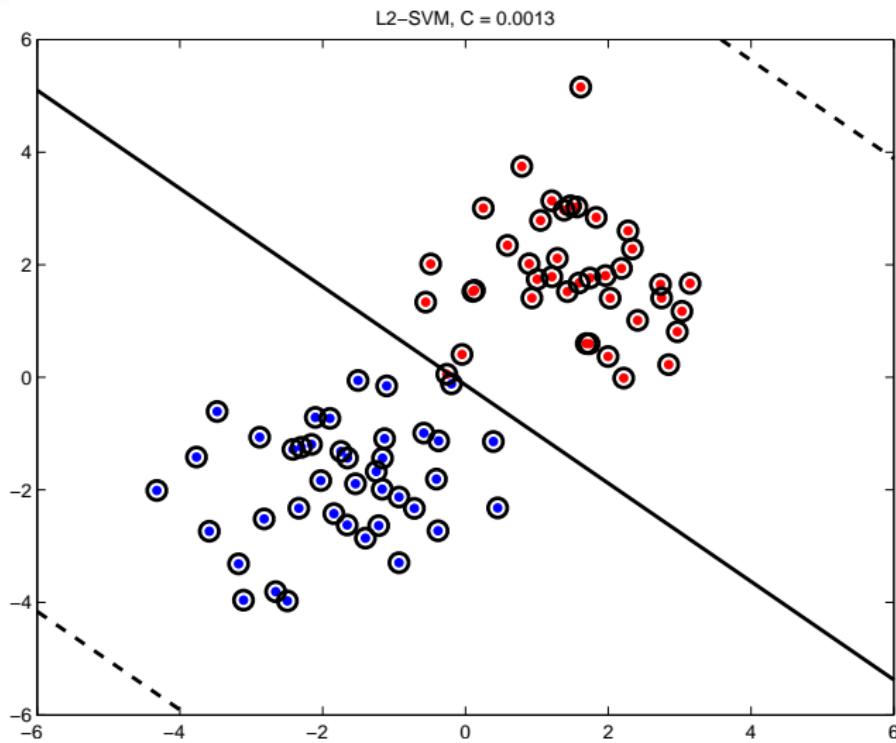
## L2-SVM Example



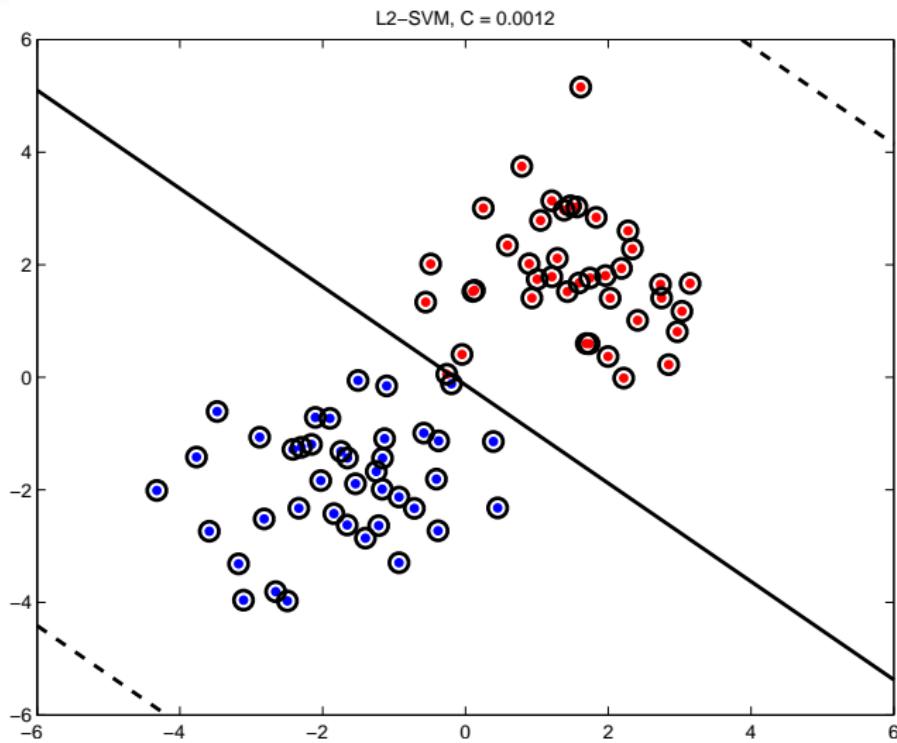
# L2-SVM Example



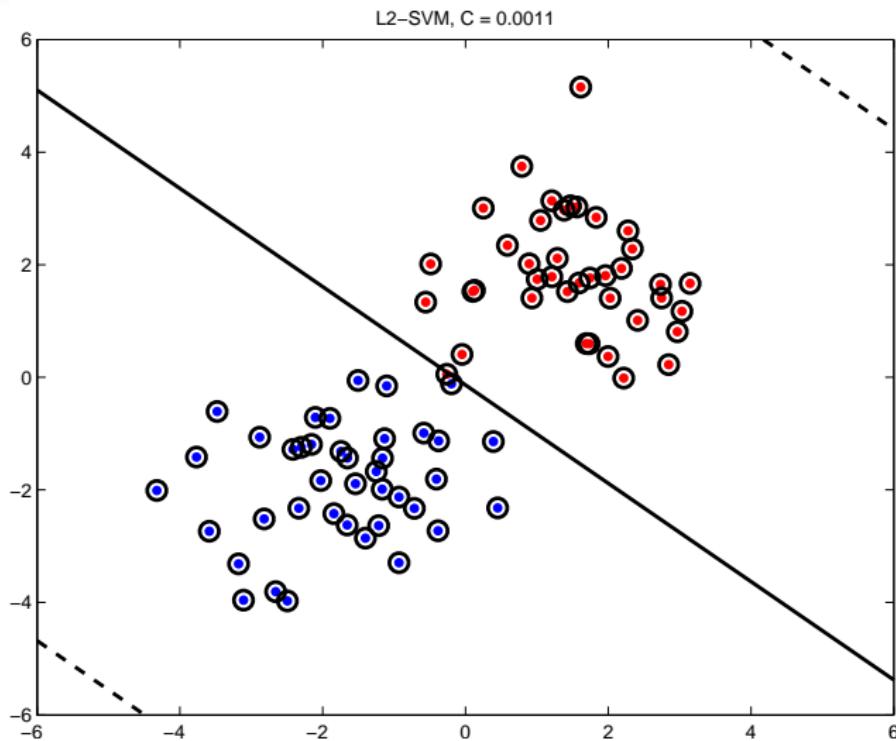
# L2-SVM Example



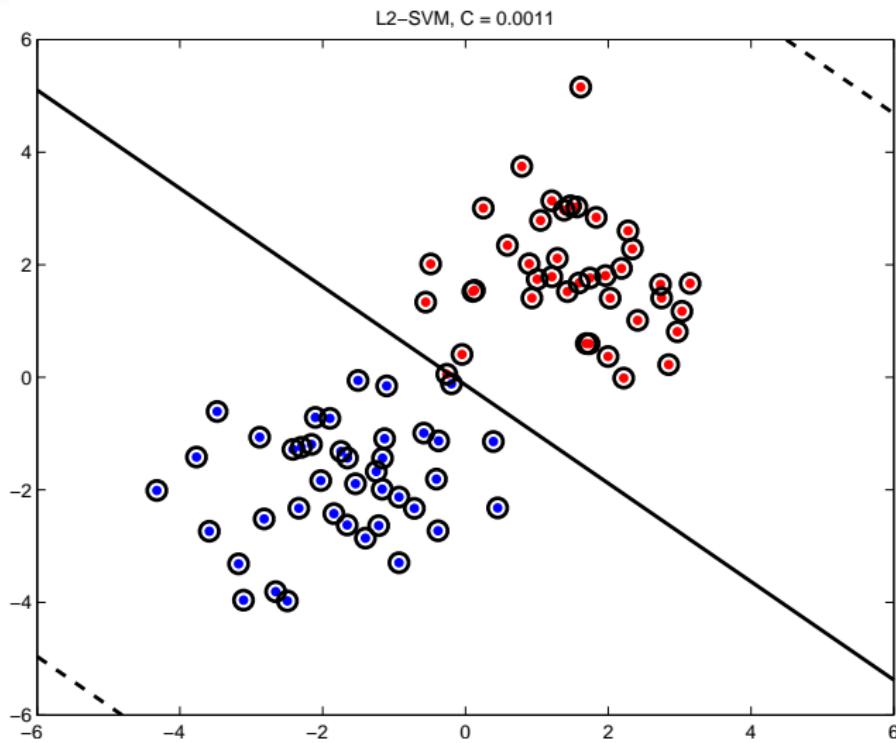
# L2-SVM Example



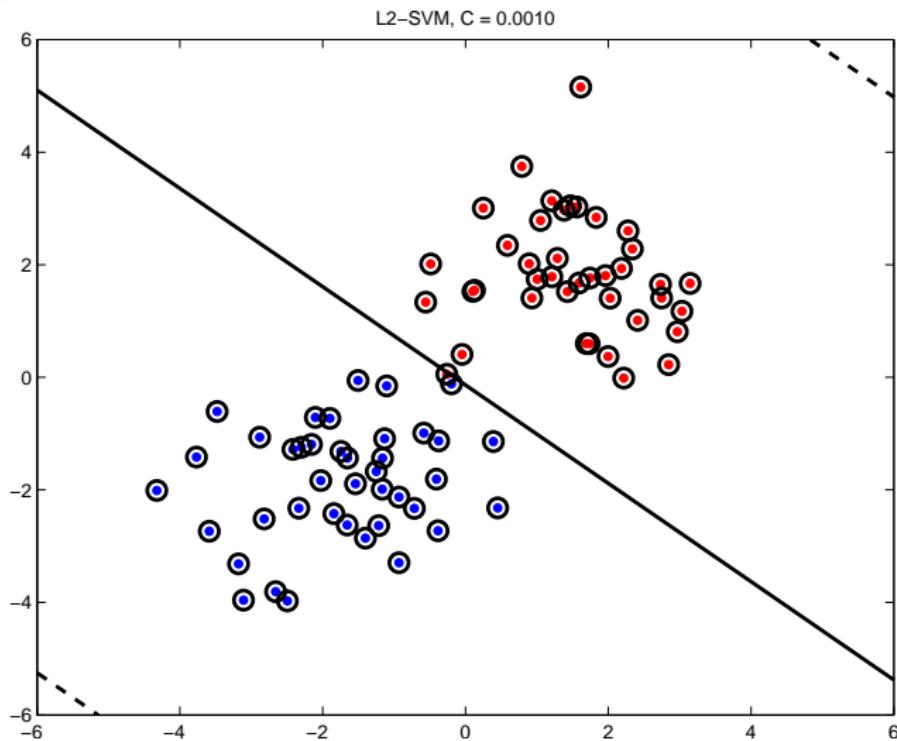
# L2-SVM Example



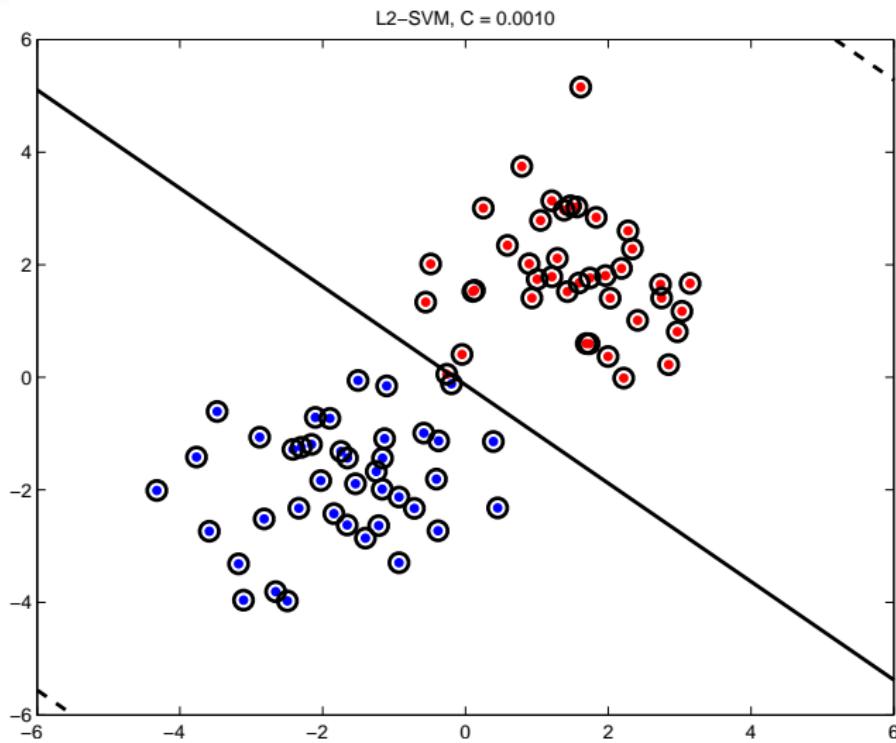
# L2-SVM Example



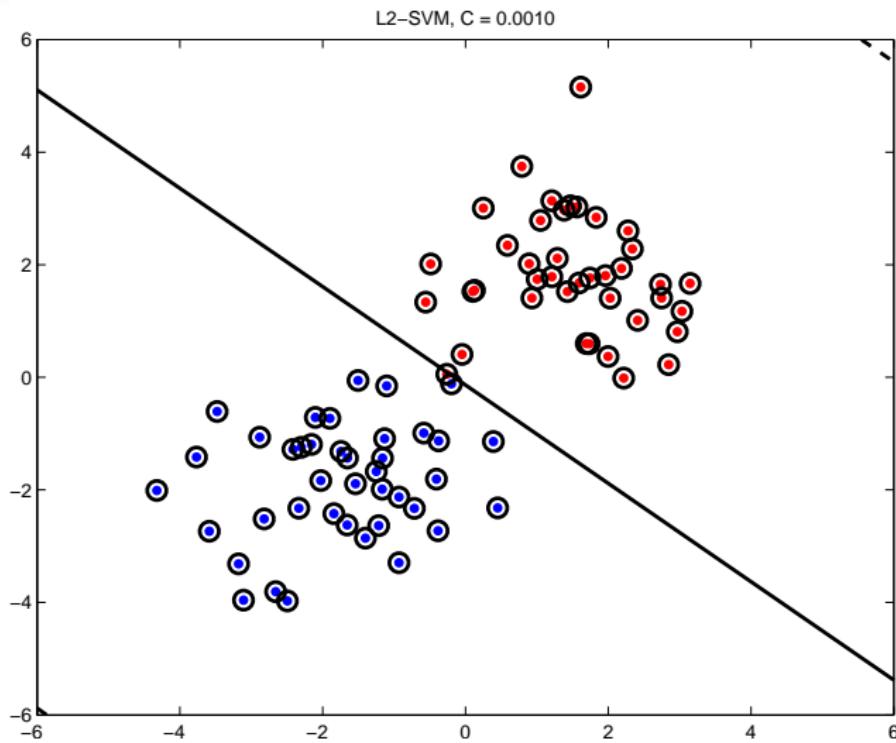
## L2-SVM Example



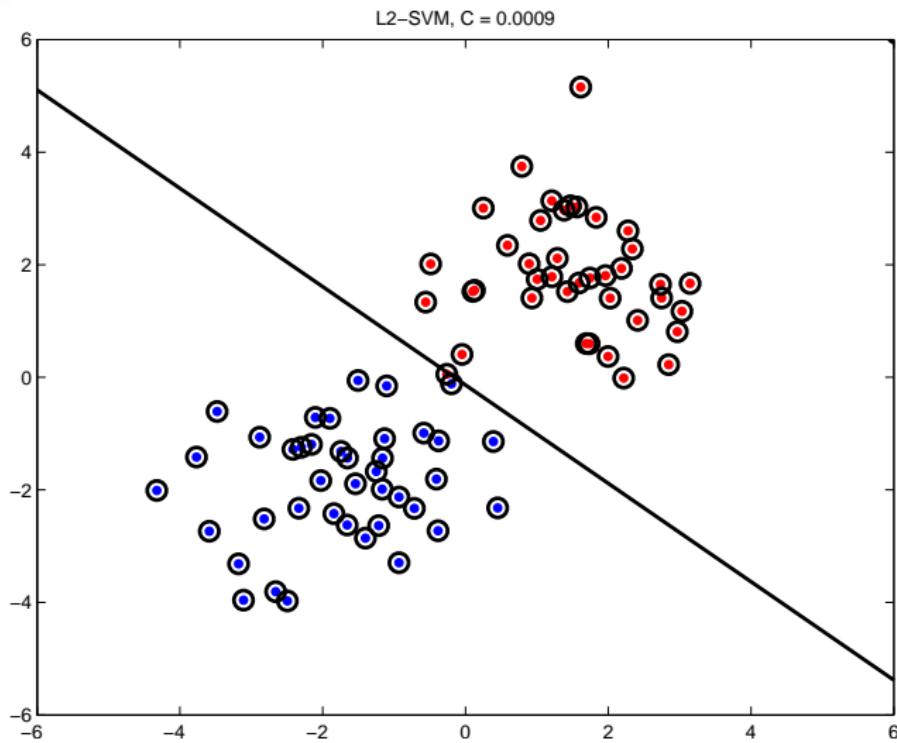
# L2-SVM Example



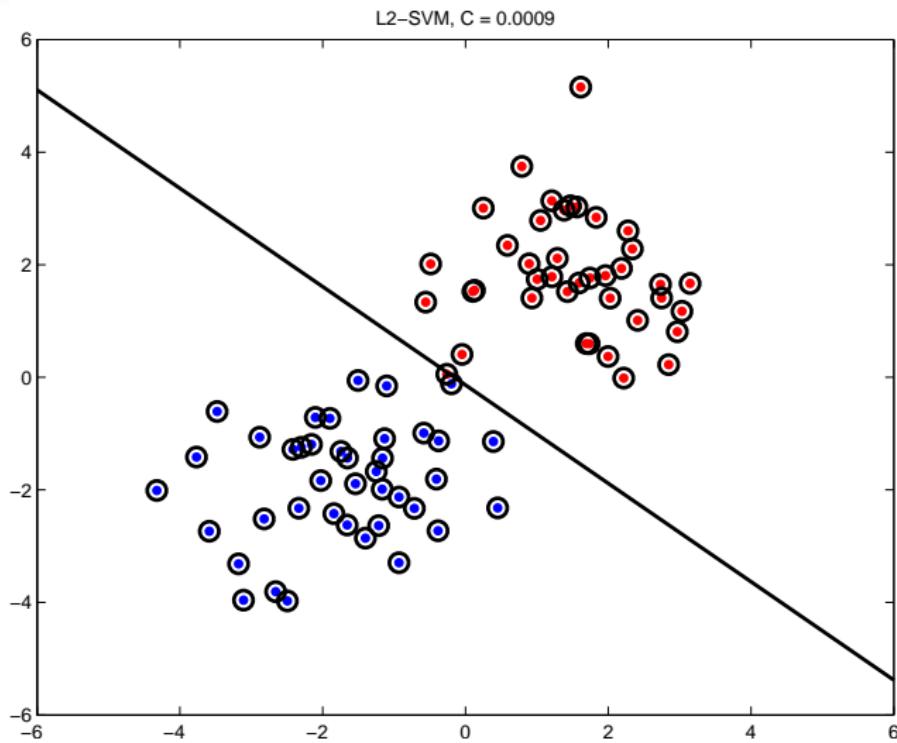
# L2-SVM Example



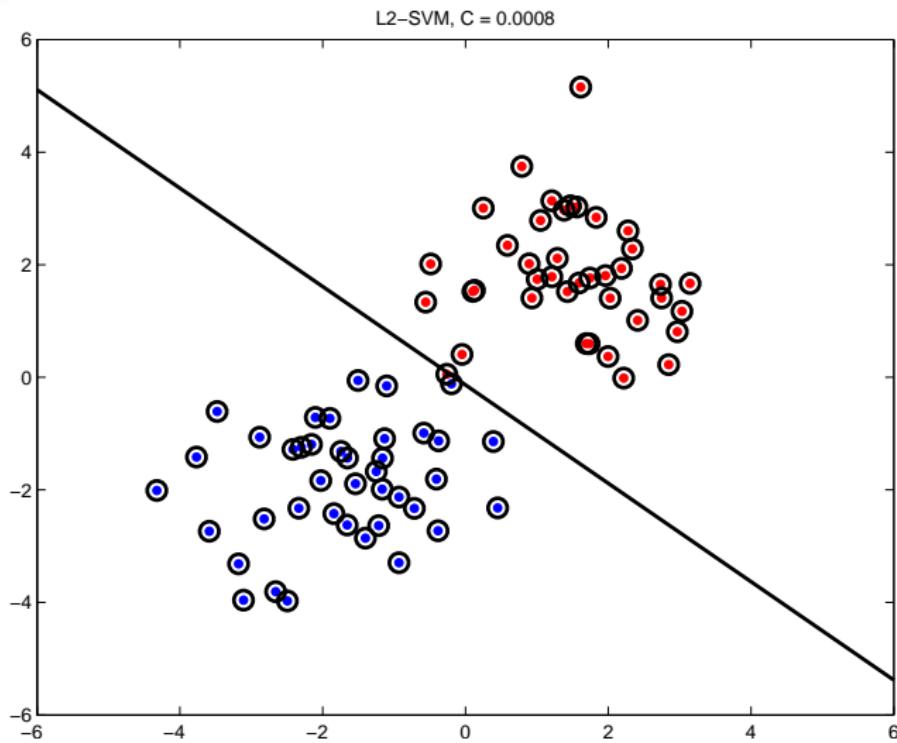
## L2-SVM Example



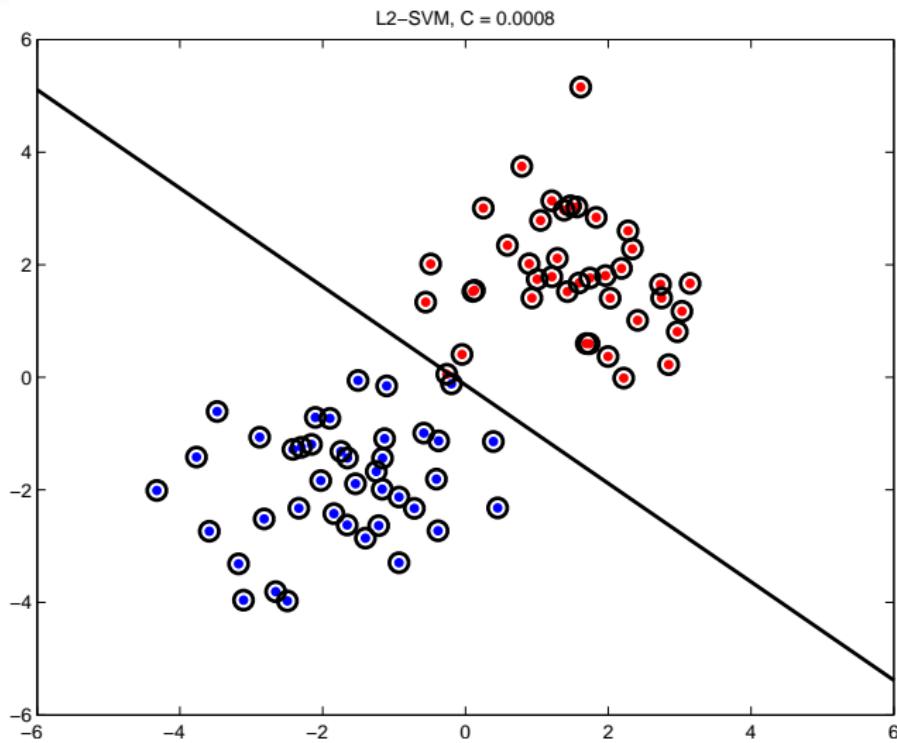
# L2-SVM Example



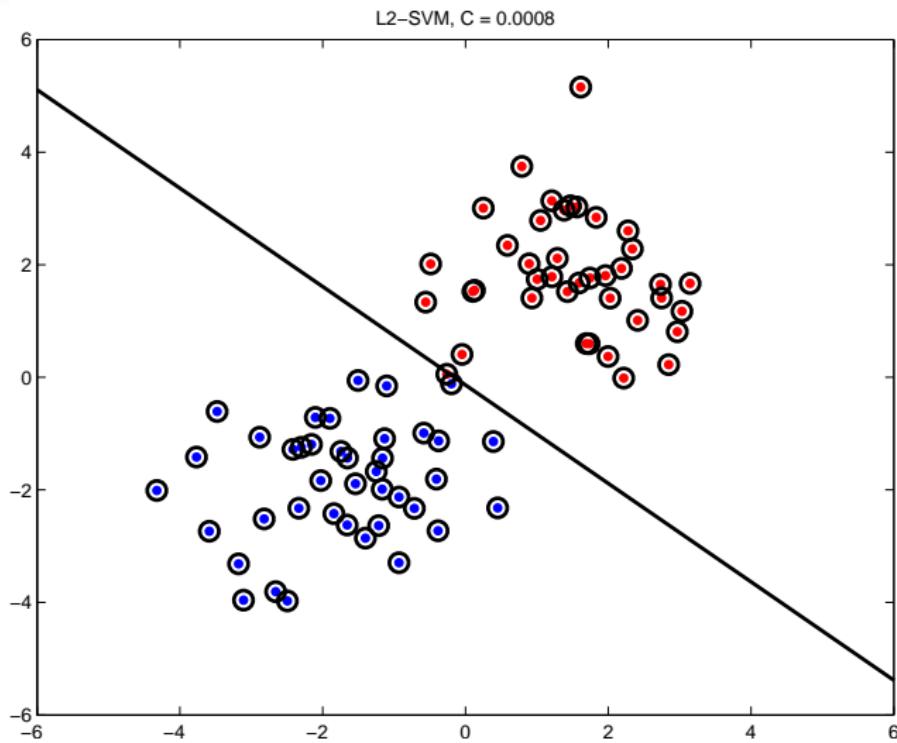
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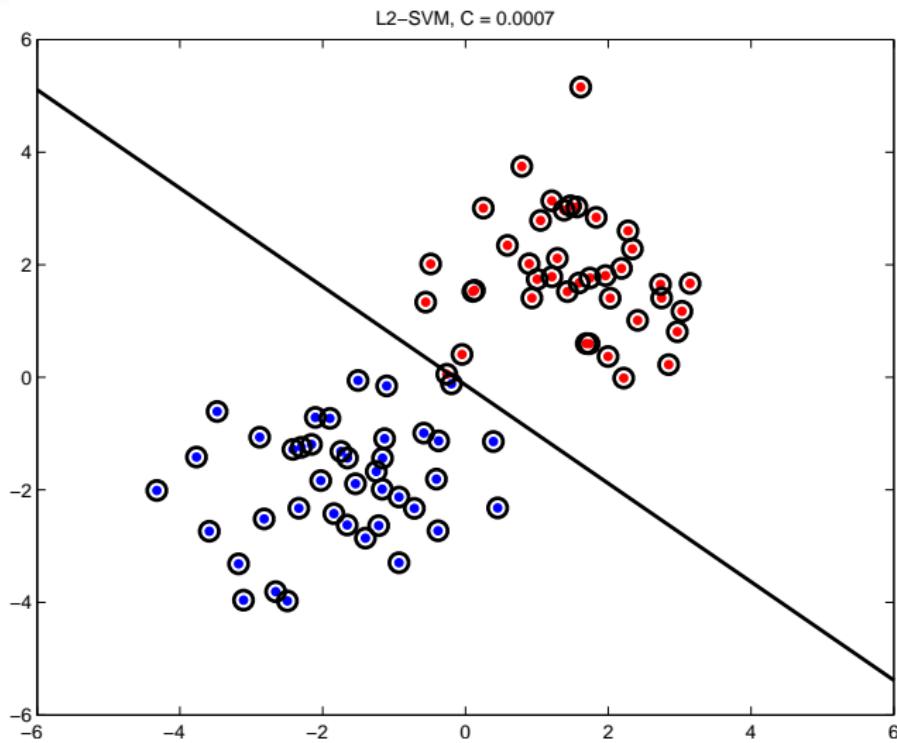
# L2-SVM Example



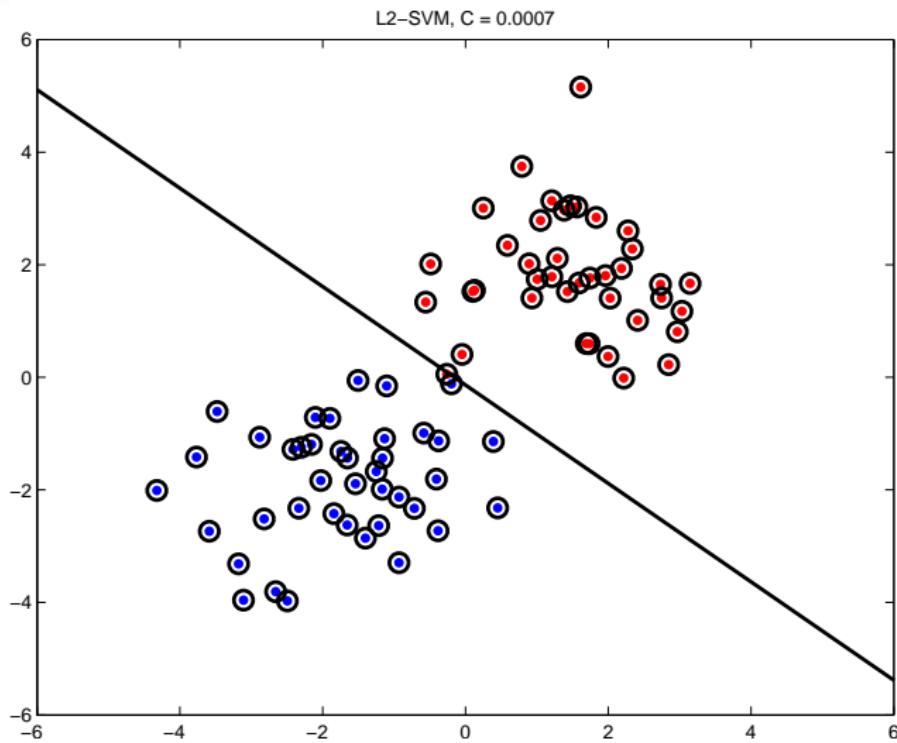
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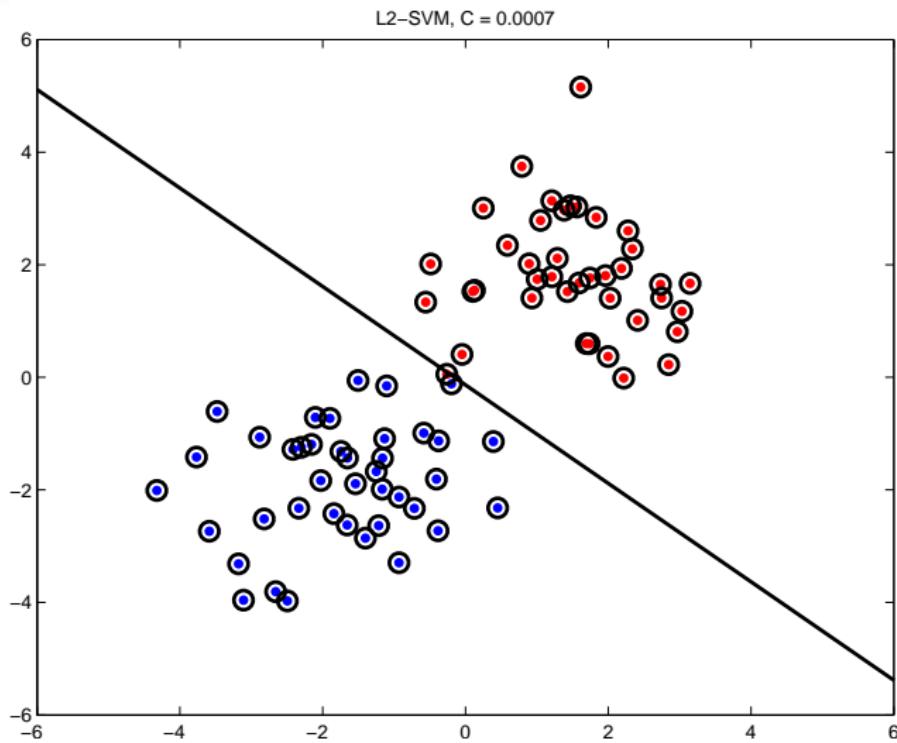
# L2-SVM Example



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# L2-SVM Example



## L2-SVM Example

