Support Vector Machines | Data Mining | Machine Learning

How can I apply an SVM on mixed data (numerical & nominal) attributes?

2 Answers

Umut Eser, My postdoctoral research heavily involves machine learning techniques.
Answered Apr 19, 2018

Yes you can.

Good practices:

- Try standardizing the numerical data, i.e. zero mean unit variance, i.e. subtract the mean, divide by the variance.
- Use one-hot encoding for your nominal data, i.e. a vector whose dimension matches the total number of nominal classes and whose entries are all zero except the dimension corresponding to the class you want to represent, which is 1.

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How do we apply k-means clustering algorithm for mixed data-numeric and categorical?

Colleen Farrelly, Data Scientist/Poet/Social Scientist/Topologist (2009-present)
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Try creating dummy variables for the nominal data. Make sure it is really nominal and not ordinal, as order might matter for some categories.

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Why is SVM not popular nowadays? Also, when did SVM perform poorly?

How can I apply dimensionality reduction on mixed data (categorical and hybrid)?

What is the main difference between a SVM and SVR?

What is the SVM technique?

Does SVM suffer from the "curse of dimensionality"? If so, how does SVM overcome it?

Do we need to convert categorical data to numerical data before applying to decision tree?

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I'm applying SVM to a binary classification problem using R. How can I get to know the significance values of parameters/variables using SVM f...