Regression

Regression Model

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| Linear Regression | informations about relevance of features | The Linear Regression Assumptions |
|-----------------------|--|---|
| Polynomial Regression | Works on any size of dataset, works very well on non linear problems | Need to choose the right polynomial degree for a good bias/variance tradeoff |
| SVR | Easily adaptable, works very well on non linear problems, not biased by outliers | Compulsory to apply feature scaling, not well known, more difficult to understand |

Interpretability, no need for feature scaling,

Pros

Works on any size of dataset, gives

works on both linear / nonlinear problems overfitting can easily occur Powerful and accurate, good performance No interpretability, overfitting can easily on many problems, including non linear occur, need to choose the number of trees

Cons

The Linear Degracoion Accumptions

Poor results on too small datasets,

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