Regression

Regression Model

Linear Regression	Works on any size of dataset, gives 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

Pros

Interpretability, no need for feature scaling, works on both linear / nonlinear problems

Powerful and accurate, good performance

on many problems, including non linear

Poor results on too small datasets,

Cons

overfitting can easily occur

No interpretability, overfitting can easily

occur, need to choose the number of trees

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Machine Learning A-Z

Decision Tree Regression

Random Forest Regression