

Ques 77

Regression Model	Advantages	Disadvantages.
Linear Regression	<ol style="list-style-type: none"> 1) Work well irrespective of the dataset size. 2) Gives information about the relevance of features. 	<ol style="list-style-type: none"> 1) The assumption of linear regression.
Polynomial Regression	<ol style="list-style-type: none"> 1) Works on any size of the data set. 2) Work very well on non-linear problems. 3) Not biased by outliers (object that deviates significantly from rest). 	<ol style="list-style-type: none"> 1) We need to choose the right polynomial degree for good bias/variance tradeoff.
Support Vector Regression	<ol style="list-style-type: none"> 1) Easily adaptable 2) Work very well on non-linear problems 	<ol style="list-style-type: none"> 1) Compulsory to apply feature scaling. 2) Not well known 3) Difficult to understand.

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Regression Model	Advantages	
Decision tree Regression	1) Interpretability 2) Works well on both linear and non-linear problems 3) No need to apply feature scaling.	1) Poor results on small dataset 2) overfitting can easily occur
Random Forest Regression	1) Powerful 2) Accurate 3) Good performance on many problems including non-linear.	1) No interpretability 2) overfitting can easily occur 3) we need to choose number of trees