

Comparisons Between different Algorithm and their Best Model %

1. Multiple Linear Regression

R2Score = 0.935868097

2. Support Vector Machine

Support Vector Machine			
Kernel	degree	r2 Score	Comments
poly	1	-0.0572305	
poly	0	-0.0508901	
linear		0.8950779	
rbf		-0.0573173	
sigmoid		-0.057499197	
precomputed			Cannot be Calculated asSVR requires a square kernel matrix as input, but your X_train is a 35x5 matrix (35 samples with 5 features).

3. Decision Tree

Decision Tree				
criterion	splitter	max_depth	r2 Score	Comments
squared_error	best		0.925401938	
squared_error	random		0.892244364	
friedman_mse	best		0.904269884	
friedman_mse	random		0.422935473	
absolute_error	best		0.949840653	Best Model in Decision Tree
absolute_error	random	5	0.7408381/0.7569438	Using Maxdepth=5 , r2 score improved by 1%
poisson	best	5	0.9318880/0.9111390	Using Maxdepth=5 , r2 score decreased by 2%
poisson	random		0.672222406	

