##### 1 . Prepare a prediction model for profit of 50\_startups data.

Do transformations for getting better predictions of profit and

make a table containing R^2 value for each prepared model.

R&D Spend -- Research and devolop spend in the past few years

Administration -- spend on administration in the past few years

Marketing Spend -- spend on Marketing in the past few years

State -- states from which data is collected

Profit -- profit of each state in the past few years

##### Solution :- R-squared value of each model

|  |  |
| --- | --- |
| **Model** | **R-squared value** |
| Ml1 | 0.951 |
| Mladm | 0.040 |
| Mlmar | 0.559 |
| Ml2 | 0.610 |
| Ml1\_new | 0.961 |
| Final\_model | 0.960 |
| Model\_train | 0.944 |
| Model\_test | 0.969 |

##### startup.ipynb file.

##### 2 . Consider only the below columns and prepare a prediction model for predicting Price.

Corolla<-Corolla[c("Price","Age\_08\_04","KM","HP","cc","Doors","Gears","Quarterly\_Tax","Weight")]

##### Solution :- price.ipynb