ANALYSIS OF R\_SCORE for the given dataset insurance\_pre

Multiple Linear Regression

R score value is 0.78

Support Vector machine

|  |  |
| --- | --- |
| Kernel | R\_score |
| ***linear*** | -0.01 |
| ***Poly*** | -0.07 |
| ***rbf*** | -0.08 |
| ***sigmoid*** | -0.07 |

Decision Tree

|  |  |
| --- | --- |
| Criterion | R\_score |
| ***squared\_error*** | 0.68 |
| ***friedman\_mse*** | 0.67 |
| ***absolute\_error*** | 0.65 |
| ***poisson*** | 0.71 |

Random Forest

n\_estimator =100, r\_score value is 0.85  
  
when comparing with all, Random forest is the best model because it provides 85% accuracy so I have chosen Random forest.