By seeing the dataset I concluded that there are some outliers and nan values in the dataset. By proper methods I overcome those difficulties and performed the regression and modelling and after tuning the parameters.

I performed 4 types of model

* **Linear Regression model**
* **Random Forest regression model**
* **Support Vector Machine**
* **Neural network model**

**Random Forest**

* The mean squared error **MSE of 38.85** measures
* The average squared difference between the predicted values and the true values, and a lower MSE indicates a better fit.
* The **R-squared 0.98** is close to 1
* Which indicates that the model explains 98% of the variance in the output variable,
* Higher R-squared score indicates a better fit.
* The mean absolute error **(MAE) 4.22**
* Which measures the average difference between the predicted and the true values
* Lower MAE indicates a better fit.

The results indicate that the model has a relatively low error and good fit to the data.

In this case, the low MSE and high R-squared score, combined with the relatively small MAE of 4.22, suggest that the model has a good fit to the data.