



Model Development Phase Report

Date	12 July 2024
Team ID	Team - 739781
Project Title	Abalone Age Prediction
Maximum Marks	4 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include Model Training and accuracy score, presented through respective screenshots.

Initial Model Training Code:

```
from sklearn.tree import DecisionTreeRegressor
dtr=DecisionTreeRegressor()
dtr.fit(x_train_scaled,y_train)

v DecisionTreeRegressor
DecisionTreeRegressor()

from sklearn.ensemble import RandomForestRegressor
rfr=RandomForestRegressor()
rfr.fit(x_train_scaled,y_train)

v RandomForestRegressor
RandomForestRegressor()
```





Model Validation and Evaluation Report:

		Accuracy Score
Model	Accuracy Report	





Decision
Tree
Regressor

| model=pickle.load(open("model.pkl","rb"))
| ip=([[2,0.455,0.365,0.095,0.514,0.225,0.1010,0.1500]])
| model.predict(ip)
| array([11.])

| acci1=dtr.score(x_train_scaled,y_train)
| print("Accuracy of DecisionTreeRegressor is:",acci1*100)
| Accuracy of DecisionTreeRegressor is: 100.0

Random
Forest
Regressor

Regressor

acc12=rfr.score(x_train_scaled,y_train)
print("Accuracy of RandomForestRegressor is:",acc12*100)

Accuracy of RandomForestRegressor is: 93.51817674152262