



Model Development Phase Report

	1
Date	12 July 2024
Team ID	Team - 739960
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]])	100%
	model.predict(ip) array([11.])	
	<pre>acc11=dtr.score(x_train_scaled,y_train) print("Accuracy of DecisionTreeRegressor is:",acc11*100)</pre>	
	Accuracy of DecisionTreeRegressor is: 100.0	





