



Model Development Phase Template

Date	July 2024
Team ID	739929
Project Title	Ceralal analysis based on ratings by using meachine learning techniques
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 classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

Paste the screenshot of the model training code

Model Validation and Evaluation Report:

Model	Classification Report	Accurac y	Confusion Matrix
Linear Regression model	✓ LINEAR REGRESSION MODEL		[] lr_pred [] y_test == arey([[29.9242851], == arey([[29.924285],
	[] from sklearn.linear_model import LinearRegression lr = LinearRegression() lr.fit(x_train,y_train)	60.7561	[39, 7274457], [49, 787445], [39, 787445], [39, 787445], [39, 78345], [39, 78345], [60, 7561112], [45, 8117461], [46, 8117461], [47, 8117461], [48, 8117461], [48, 8117461], [49, 8139931], [59, 13699931], [59, 13699931], [59, 137140755], [34, 1397645], [34, 139765], [34, 139765], [34,
	LinearRegression LinearRegression()		[38.39745], [38.39746], [49.3794712], [49.3794712], [49.3794712], [49.3794712], [49.3794712], [49.3794712], [49.3794712], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379482], [49.379





R2_score Model	R2_SCORE MODEL	68.4029	y_o = ln.predict(([6,8,8,8,1,6,8,8,78,4,1,138,18,5,6,128,128,133]))
	from sklearn.metrics import r2_score r2_score(y_test,lr_pred)] y,p
	r 0.99999999999992		