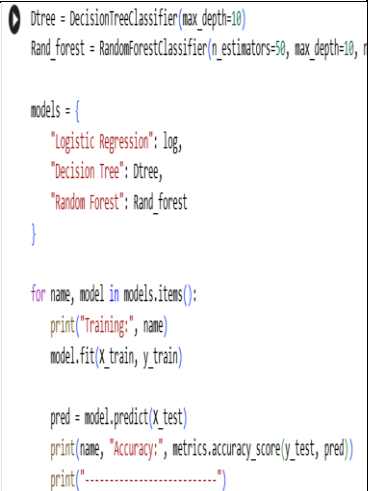


Project Development Phase Model Performance Test

Date	11-02-2026
Team ID	LTVIP2026TMIDS57051
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture.
Maximum Marks	

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshots
1.	Model Summary	-	-
2.	Accuracy	<p>Training Accuracy – 0.82</p> <p>Validation Accuracy -0.78</p>	 <pre> Dtree = DecisionTreeClassifier(max_depth=10) Rand_forest = RandomForestClassifier(n_estimators=50, max_depth=10, n models = { "Logistic Regression": log, "Decision Tree": Dtree, "Random Forest": Rand_forest } for name, model in models.items(): print("Training:", name) model.fit(X_train, y_train) pred = model.predict(X_test) print(name, "Accuracy:", metrics.accuracy_score(y_test, pred)) print(".....") </pre> <p>*** Training: Logistic Regression Logistic Regression Accuracy: 0.8184380585728035 Training: Decision Tree Decision Tree Accuracy: 0.8231816306888492 Training: Random Forest Random Forest Accuracy: 0.8293688896663</p>

3.	Fine Tunning Result(if Done)	Validation Accuracy -0.78	<pre>Otree = DecisionTreeClassifier(max_depth=10) Rand_forest = RandomForestClassifier(n_estimators=50, max_depth=10, n_jobs=-1) models = { "Logistic Regression": log, "Decision Tree": Otree, "Random Forest": Rand_forest } for name, model in models.items(): print("Training:", name) model.fit(X_train, y_train) pred = model.predict(X_test) print(name, "Accuracy:", metrics.accuracy_score(y_test, pred)) print("-----")</pre> <pre>Training: Logistic Regression Logistic Regression Accuracy: 0.818438056728025 ----- Training: Decision Tree Decision Tree Accuracy: 0.8231816306888492 ----- Training: Random Forest Random Forest Accuracy: 0.8283688886663 -----</pre>
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