Model Development Phase Template

Date	10 July 2024
Team ID	739726
Project Title	Rising Waters: A Machine Learning Approach To Flood 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 classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

```
y_pred=dt.predict(x_test)
y_pred=rf.predict(x_test)
y_pred=knn.predict(x_test)
y_pred=xgb.predict(x_test)
```

```
rf=RandomForestClassifier(n_estimators=20,random_state=42)

rf.fit(x_train,y_train)
```

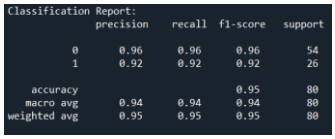
```
RandomForestClassifier
RandomForestClassifier(n_estimators=20, random_state=42)
```

```
y_pred=rf.predict(x_test)

accuracy_score(y_test,y_pred)
```

```
.9655172413793104
```

Model Validation and Evaluation Report:

Model	Classification Report	Accuracy	Confusion Matrix
Logistic Regression	-	-	-
Random Forest		96%