



Model Development Phase Template

Date	15 March 2024	
Team ID	xxxxxx	
Project Title	Chronic Kidney Disease	
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.

```
# Initialize models
logistic_model = LogisticRegression(max_iter=10000)
naive_bayes_model = GaussianNB()
random_forest_model = RandomForestClassifier(random_state=42)

# Train models
logistic_model.fit(X_train1, y_train1)

* LogisticRegression
LogisticRegression(max_iter=10000)

naive_bayes_model.fit(X_train1, y_train1)

* GaussianNB
GaussianNB()

random_forest_model.fit(X_train1, y_train1)

* RandomForestClassifier
RandomForestClassifier(random_state=42)
```





Model Validation and Evaluation Report:

Model	Classification Report	Accuracy	Confusion Matrix
Logistic Regression	1	96%	Logistic Regression Confusion Matrix [[51 2] [0 27]]
Naïve Bayes	1-Naive Bayes Classification Report: 2	100%	Naive Bayes Confusion Matrix: [[53 0] [0 27]]
Random Forest	1 Random Forest Classification Report: 2	100%	Random Forest Confusion Matrix: [[53 0] [0 27]]