



## **Model Development Phase Template**

Date	21 July 2024
Team ID	739717
Project Title	Unlocking Silent Signals :Decoding Body Language with Mediapipe
Maximum Marks	10 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 a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

## **Initial Model Training Code (5 marks):**

Paste the screenshot of the model traning code

## **Model Validation and Evaluation Report (5 marks):**

Model	Summary	Training and Validation Performance Metrics
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Model 1	Gradient Boosting Classifier model typically include accuracy, precision, recall, F1 score to evaluate its predictive performance and generalization capability.	from sklearn.ensemble import GradientBoostingClassifier atrain gbc = GradientBoostingClassifier(learning_rate=0.02,
Model 2	AdaBoost classifier model commonly include accuracy, precision, recall, F1 score which help assess the model's prediction accuracy and generalizability	from sklearm.ensemble import AdaBoostClassifier  #train  ada = AdaBoostClassifier()  ada.fit(X_train,y_train)  #spredict  #y_predicted_ab = ada.predict(X_test)  #print("Training Accuracy:", ada.score(X_train, y_train))  #print("Training Accuracy:", ada.score(X_test, y_test))  #cr = classification_report(y_test, y_predicted_ab)  #print((r)  #false_positive_rate, true_positive_rate, thresholds = roc_curve(y_test,y_predicted_ab)  #roc_auc = auc(false_positive_rate, true_positive_rate)  #print("roc_auc",roc_auc)  #print("roc_auc",roc_auc)  #print("Roc_curves = ",roc_auc)  #print("Roc_curves = ",roc_auc)  #print("Roc_curves = ",roc_auc)  #precision, recall, thresholds = precision_recall_curve(y_test, y_predicted_ab)  #precision_Recall_abs = auc(recall_n, precision)  #print("Precision-Recall Curves = ",Precision_Recall_abs)  ##precision_Recall_abs = auc(recall_n, precision)  ##print("Precision-Recall Curves = ",Precision_Recall_abs)  ##precision_Recall_abs = auc(recall_n, precision_Recall_abs)  ##precision_Recall_abs = auc(recall_n, precision_abs_abs_abs_abs_abs_abs_abs_abs_abs_abs





