

# Diabetes Prediction Report

## Extracted Data:

Pregnancies: 0

Glucose: 300

Blood Pressure: 110

Skin Thickness: 30

Insulin: 100

BMI: 21.0

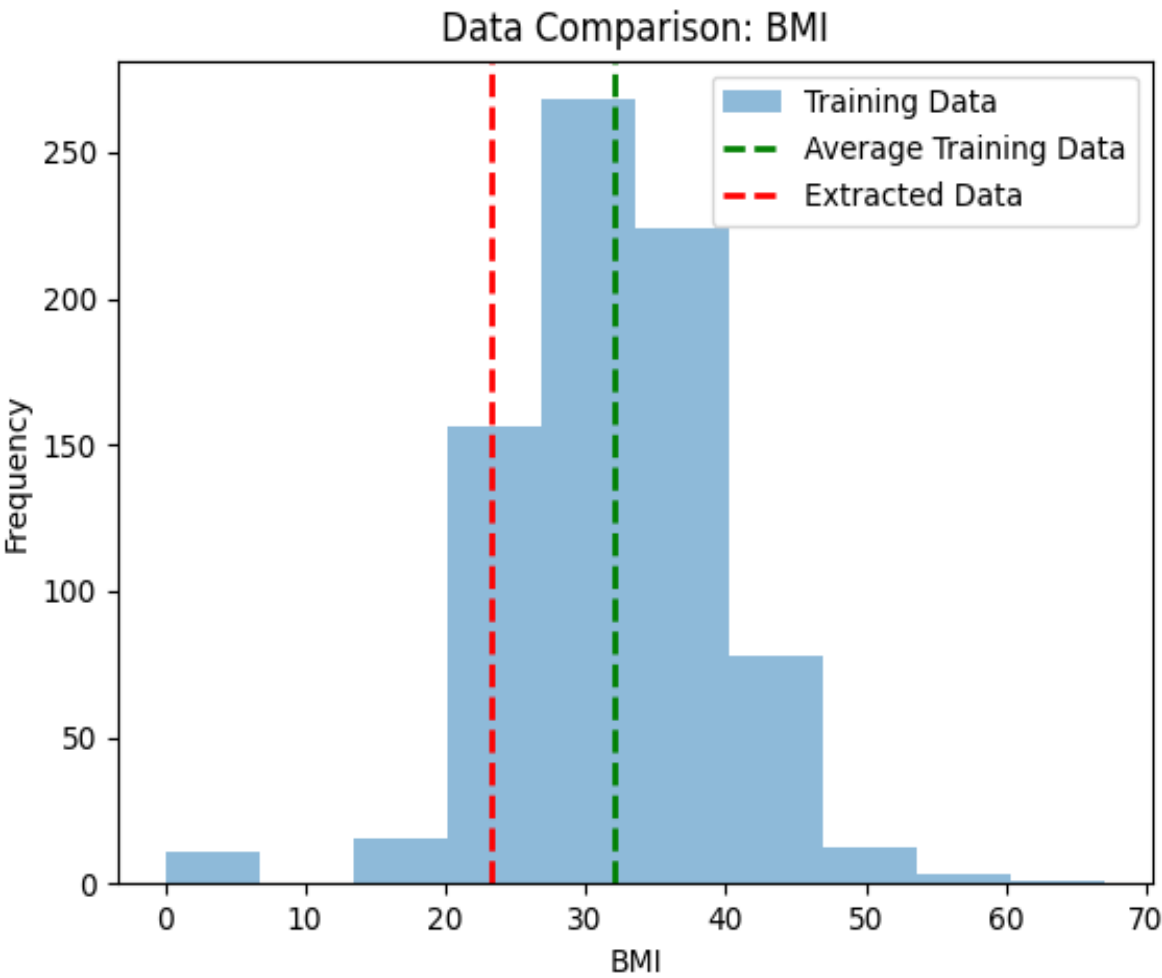
Diabetes Pedigree Function: 0.95

Age: 19

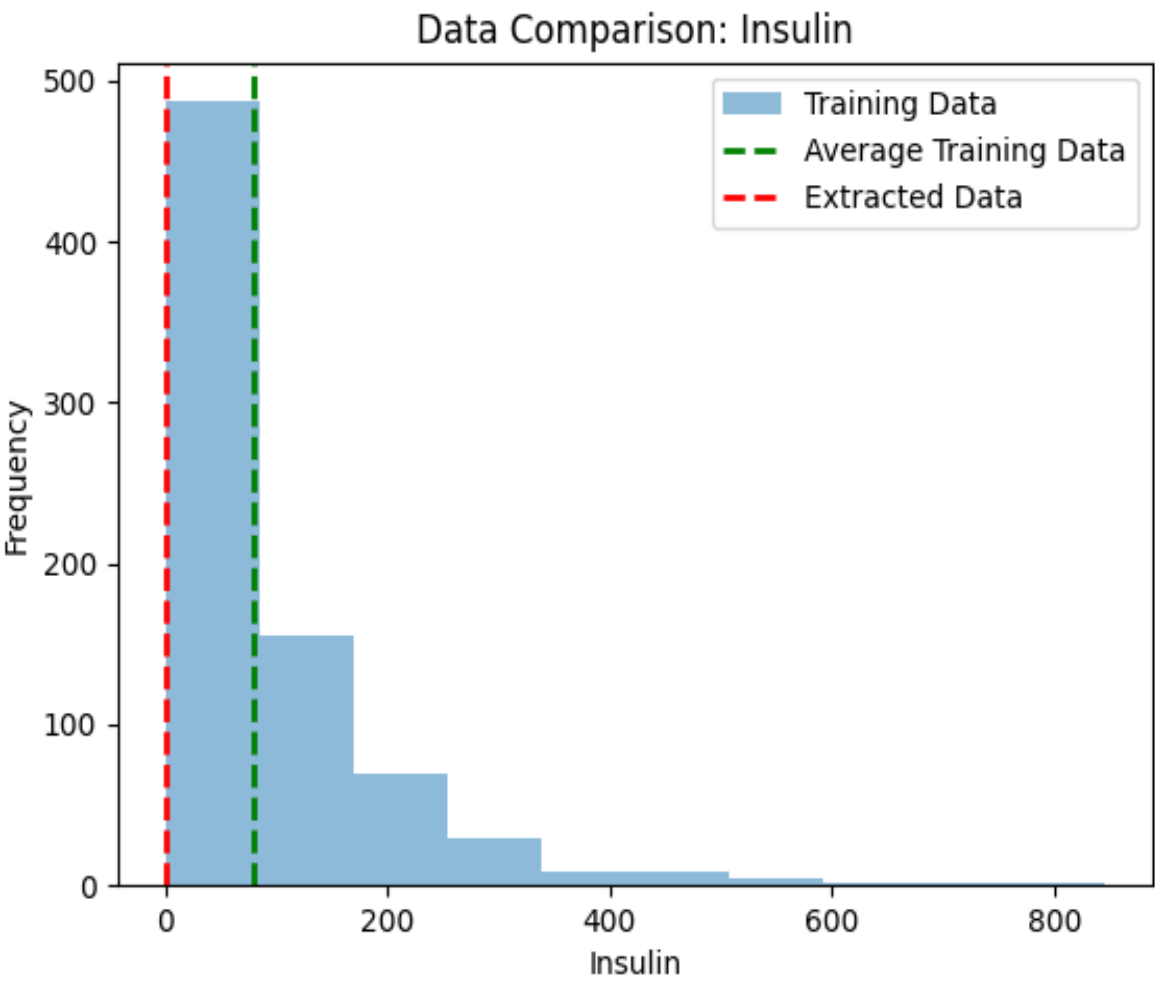
## Prediction Report:

The patient does not have diabetes.

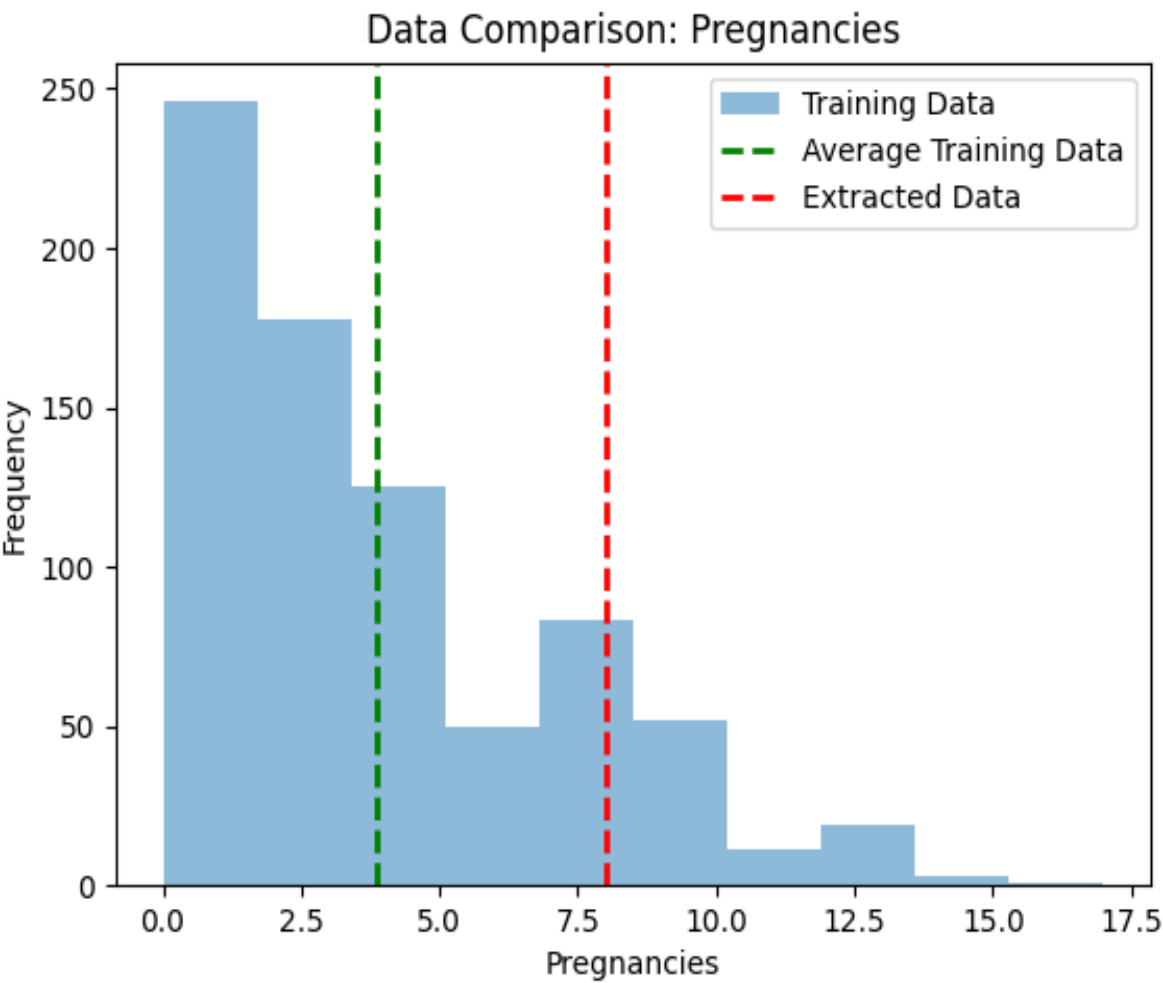
Data Comparison: BMI



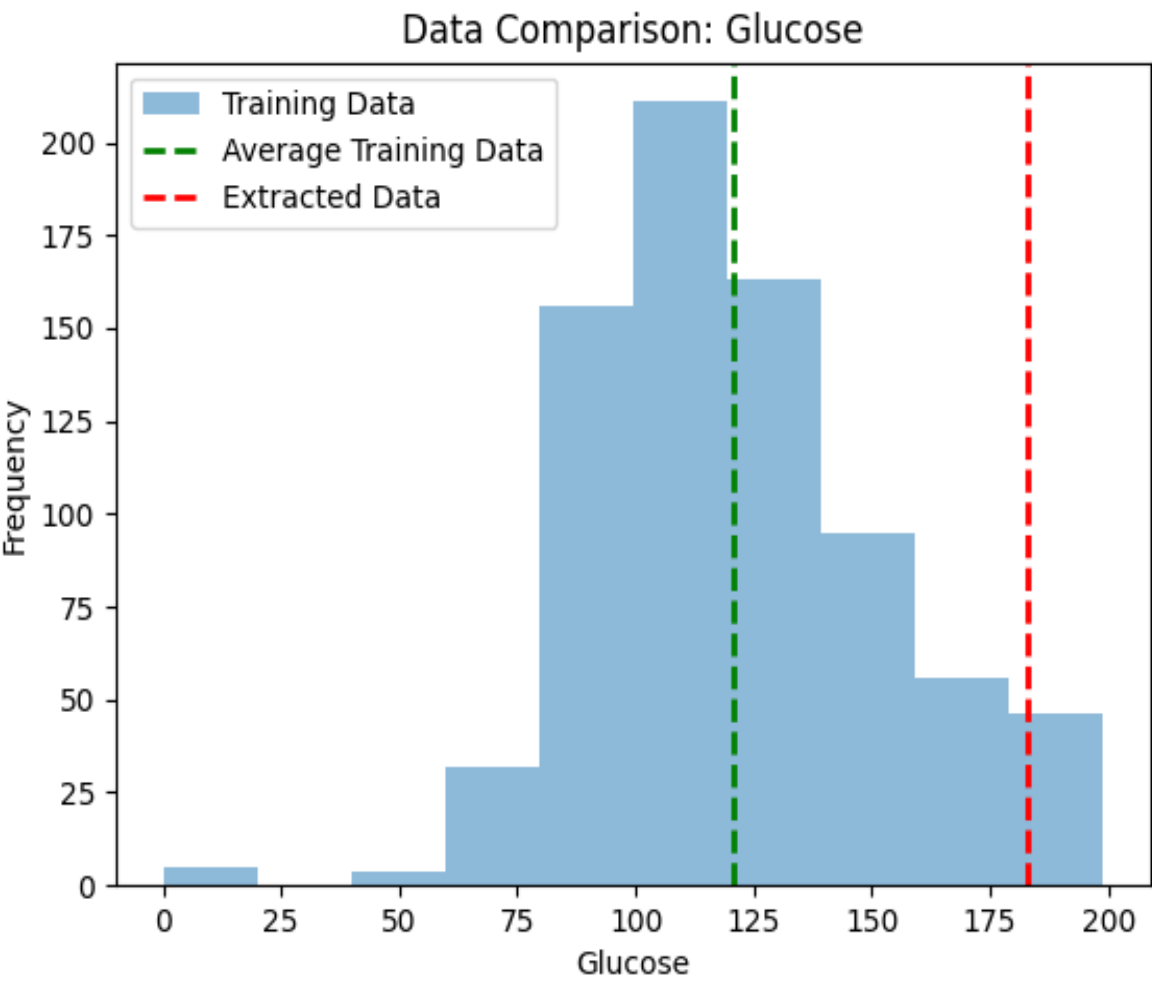
Data Comparison: Insulin



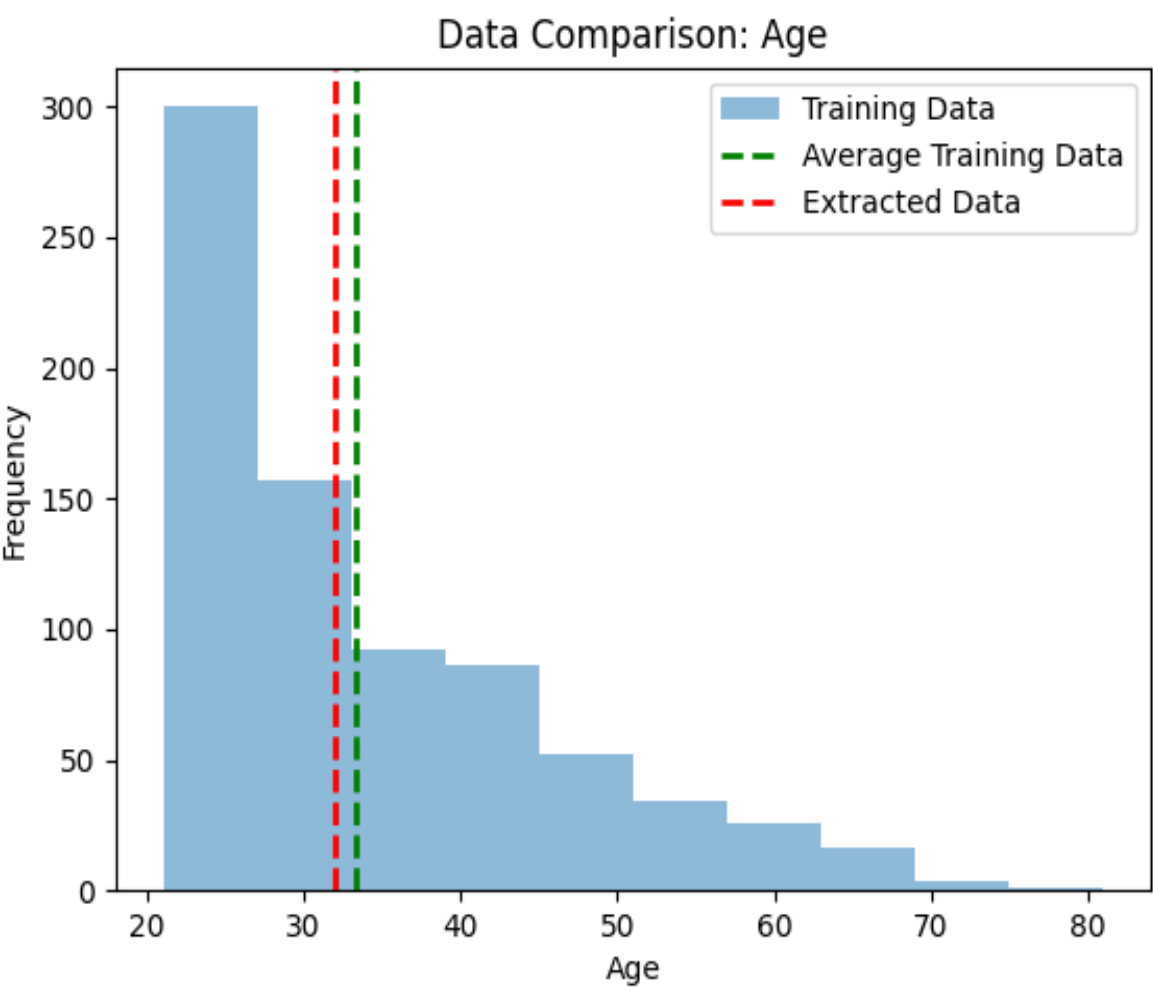
Data Comparison: Pregnancies



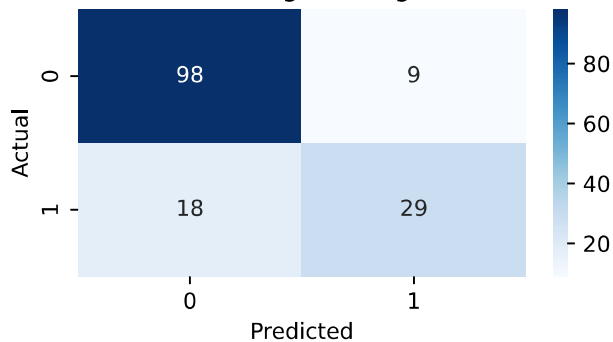
Data Comparison: Glucose



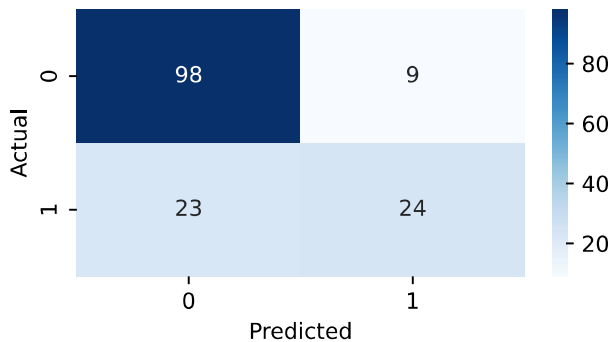
Data Comparison: Age



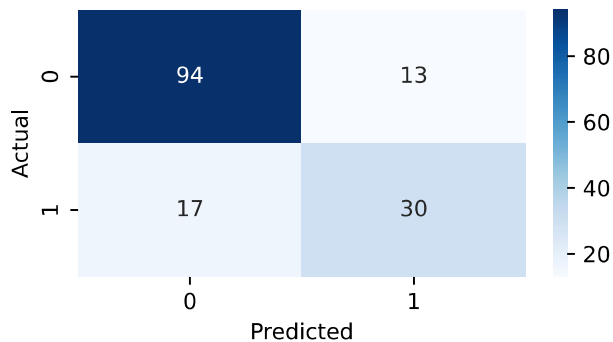
Confusion Matrix: Logistic Regression Model



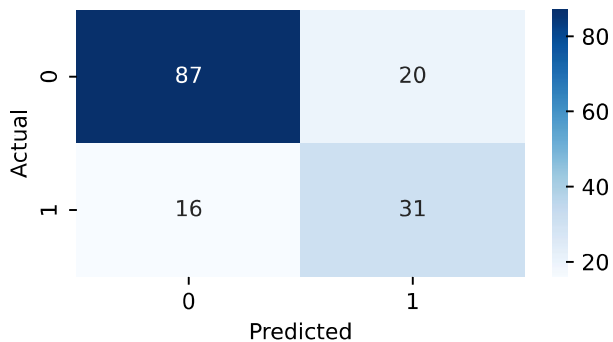
Confusion Matrix: SVC Model



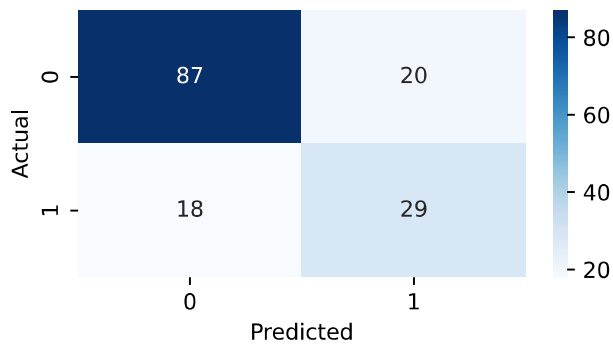
Confusion Matrix: Random Forest Model



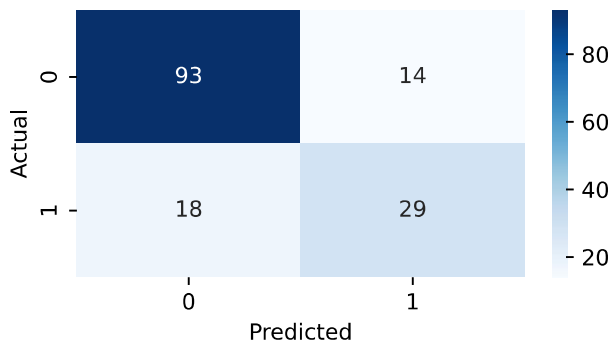
Confusion Matrix: Decision Tree Model



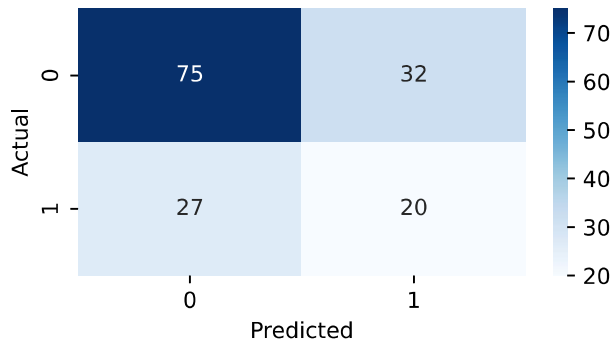
Confusion Matrix: KNN Model



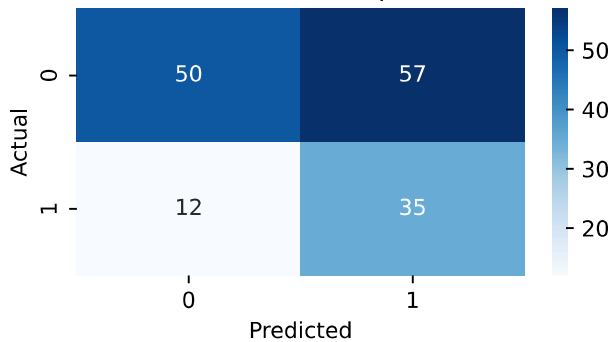
Confusion Matrix: Gaussian NB Model



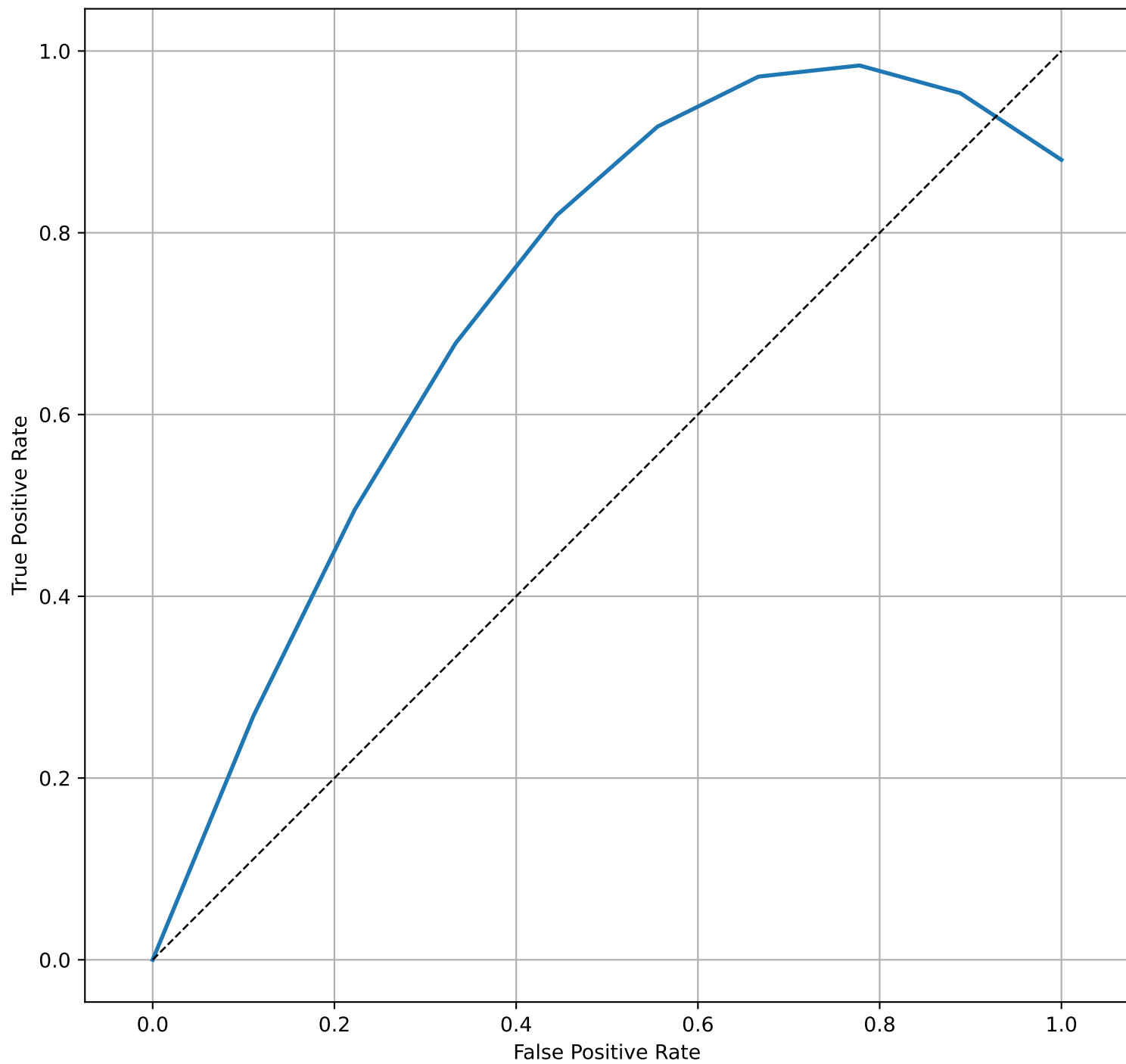
Confusion Matrix: MLP Model



Confusion Matrix: Perceptron Model

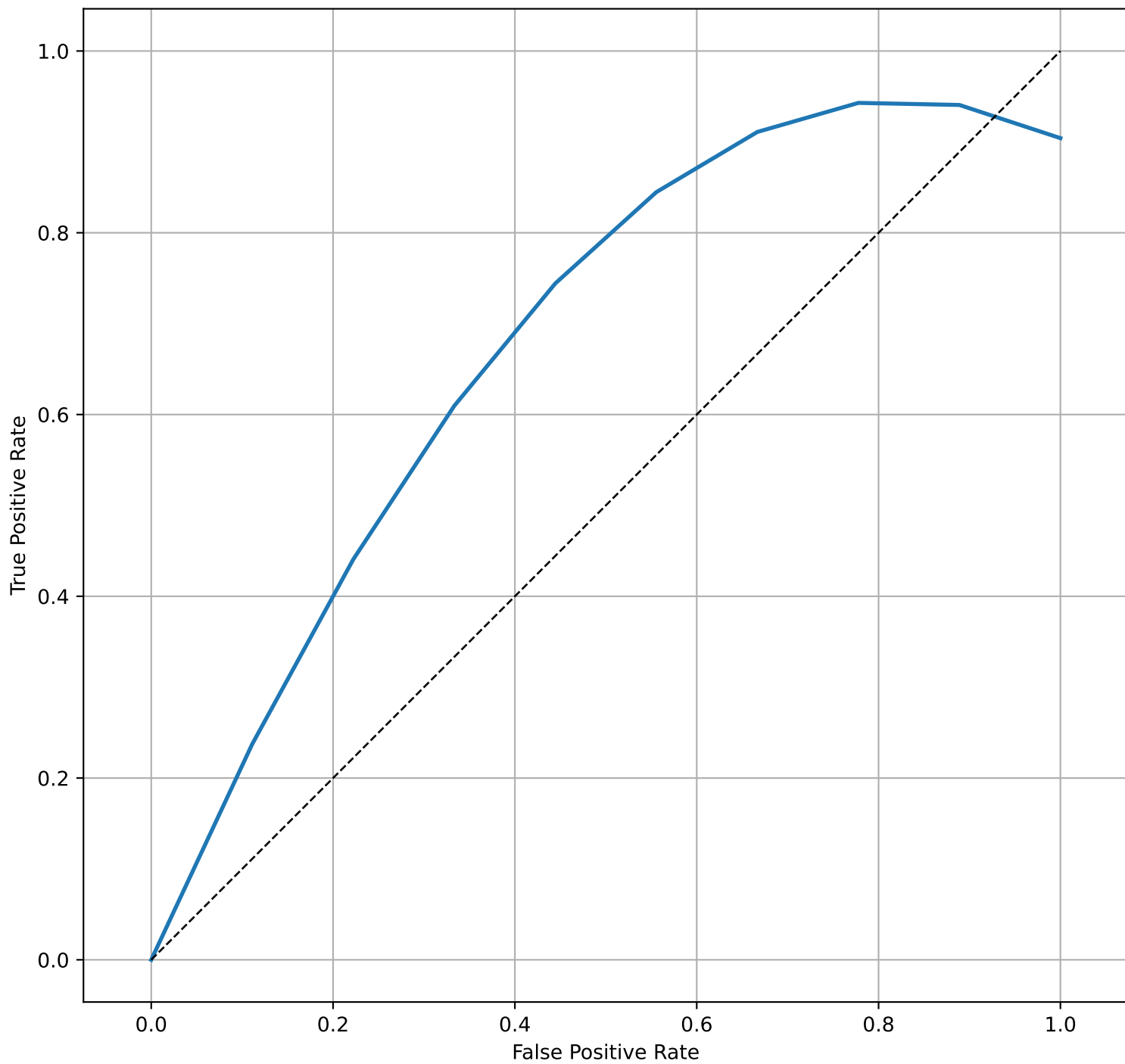


ROC Curve - Logistic Regression Model  
AUC = 0.793



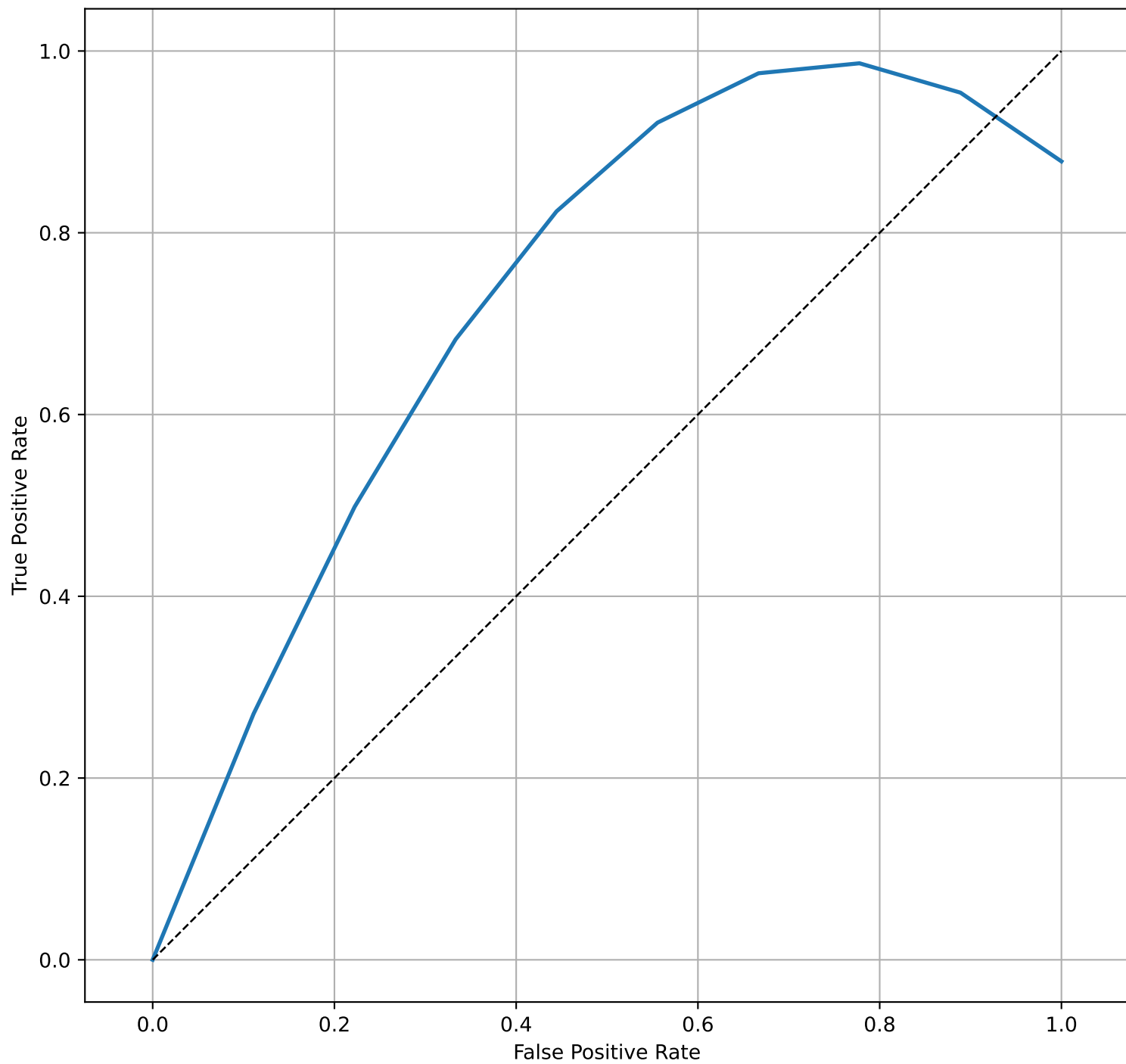


ROC Curve - SVC Model  
AUC = 0.735



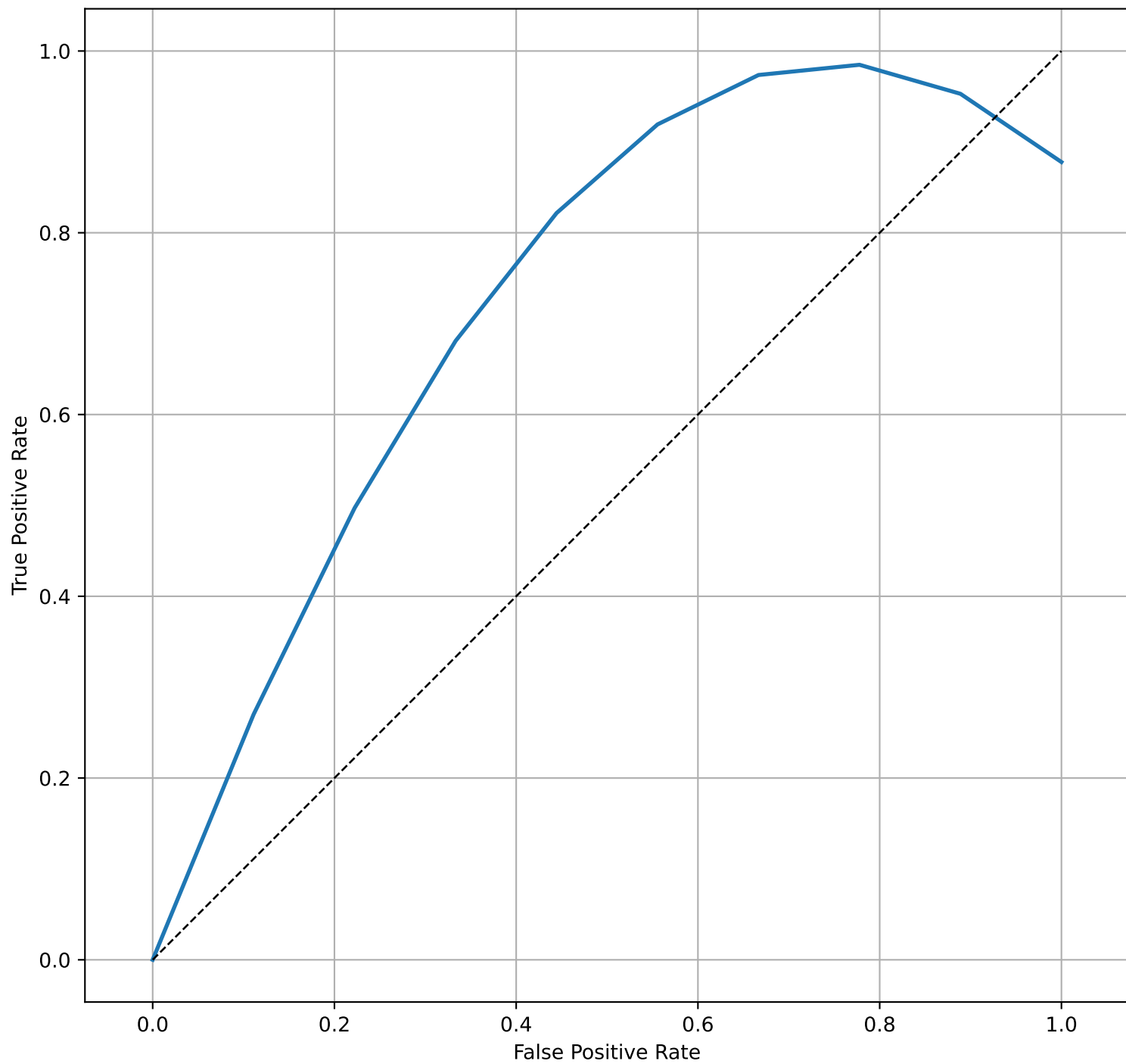
ROC Curve - Random Forest Model

AUC = 0.797



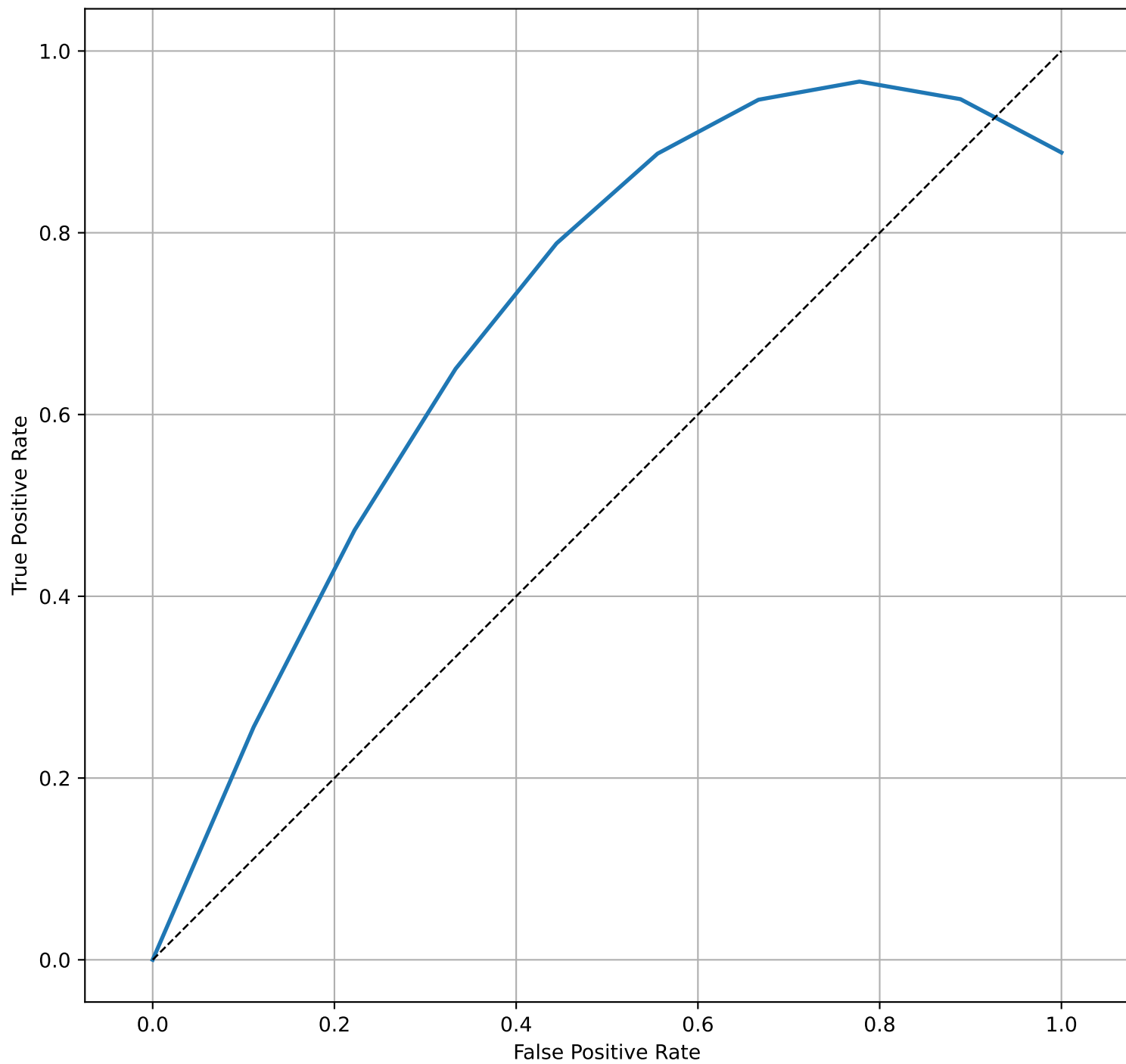
ROC Curve - Decision Tree Model

AUC = 0.799



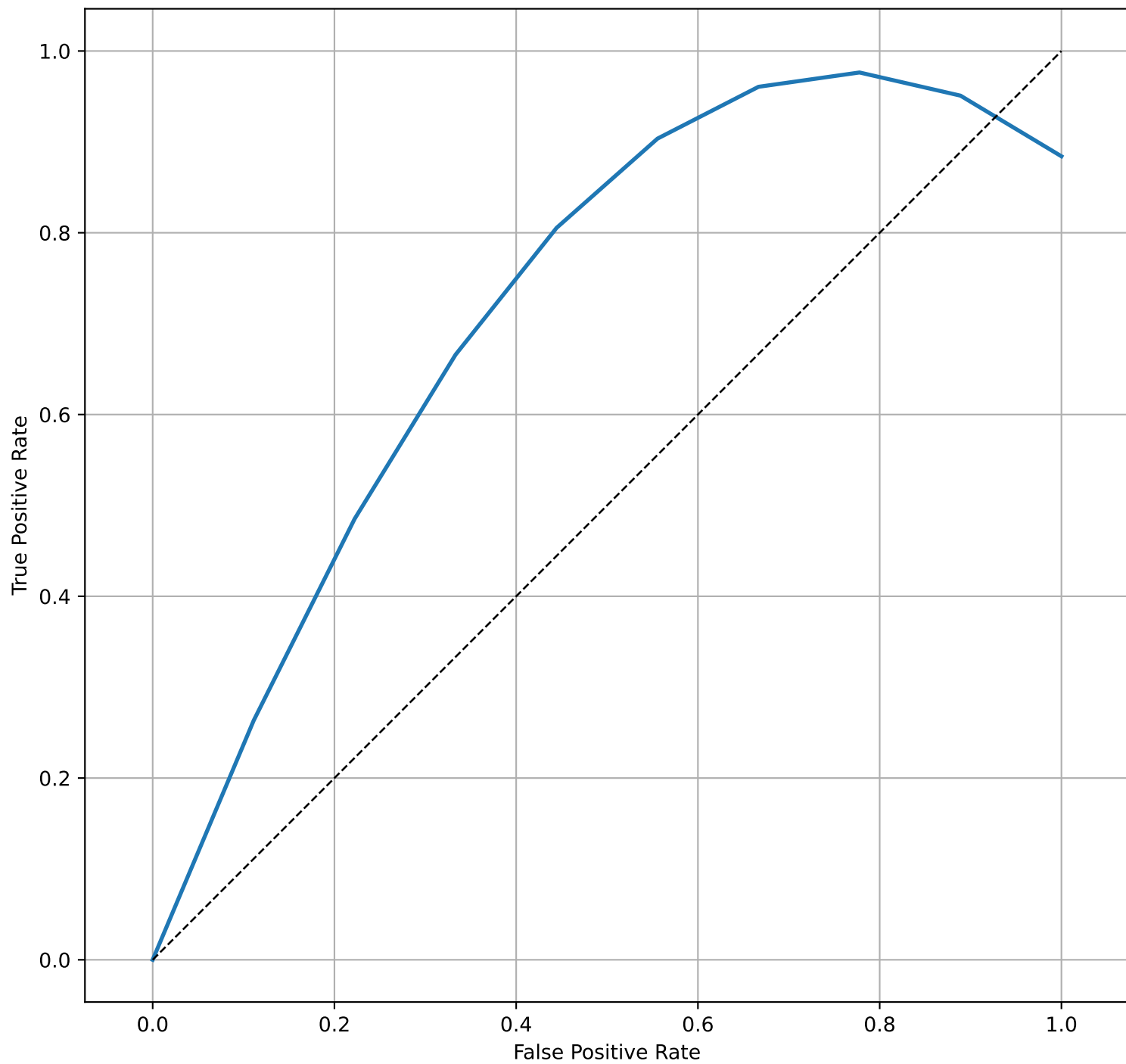
ROC Curve - KNN Model

AUC = 0.773



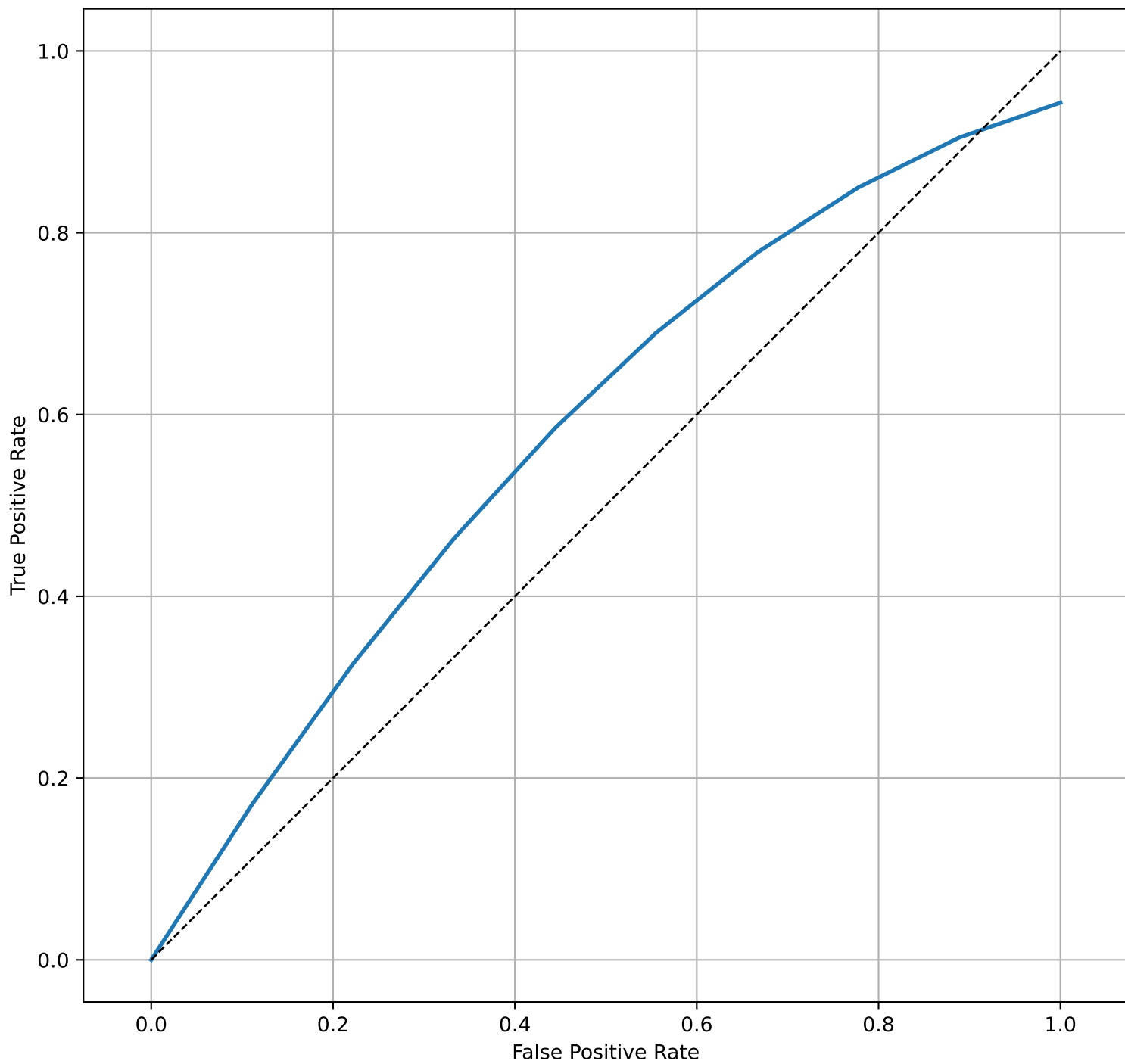
ROC Curve - Gaussian NB Model

AUC = 0.784



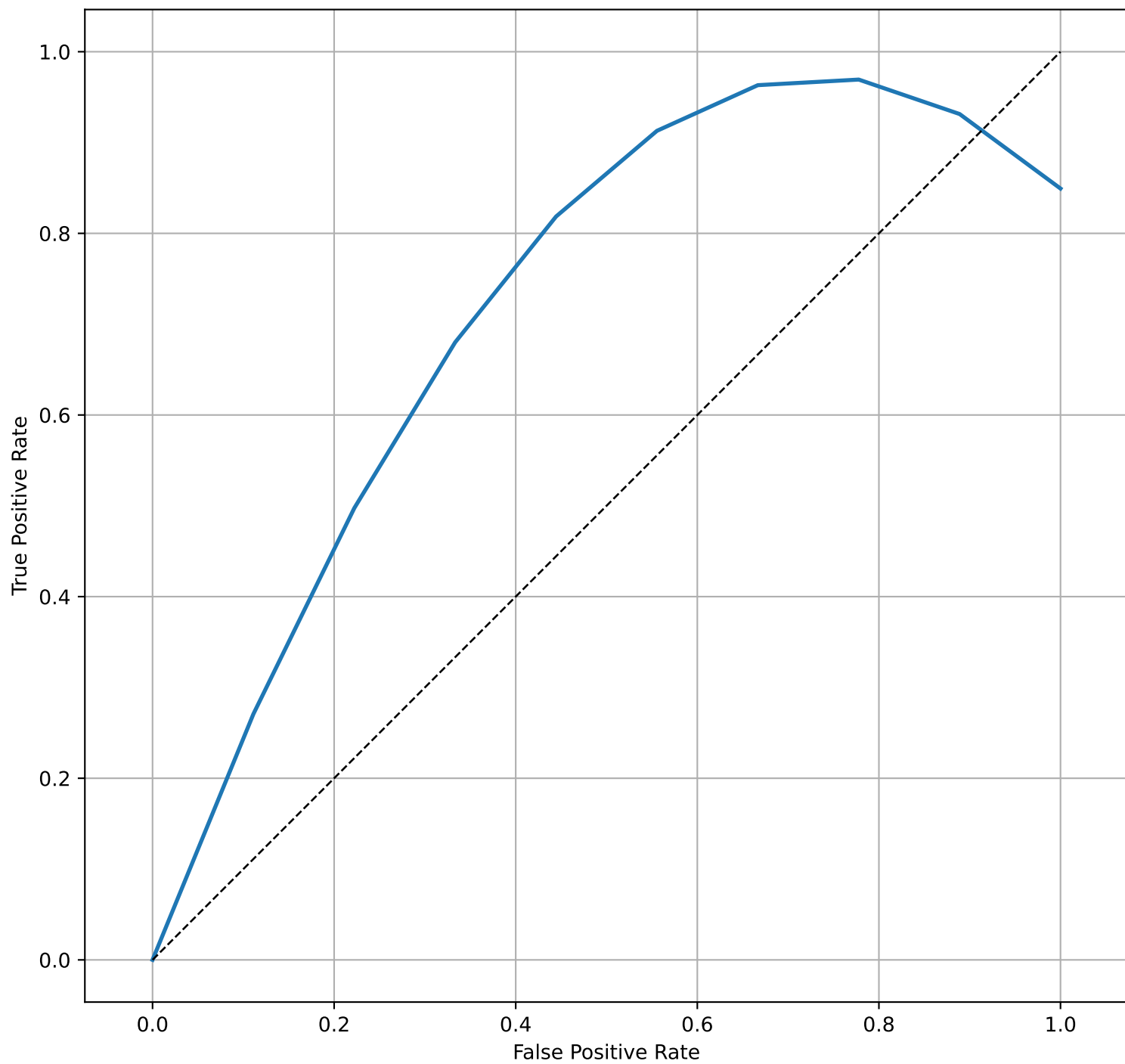
ROC Curve - MLP Model

AUC = 0.628



ROC Curve - Perceptron Model

AUC = 0.805



Combined ROC Curve

