

### Base Models

The model uses stacking technique to make a meta model that consists of 3 base models:

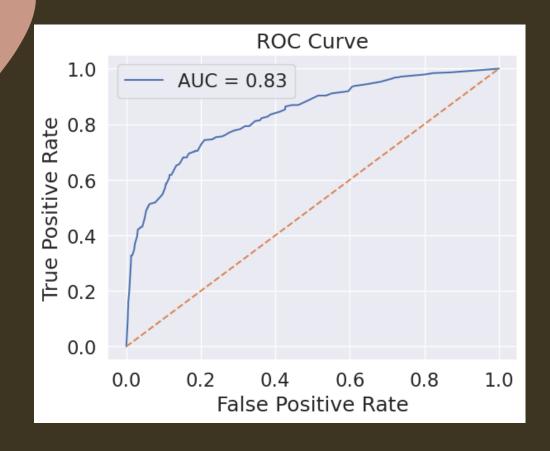
- 1. Decision Tree
- 2. Random Forest
- 3. Support Vector Machine

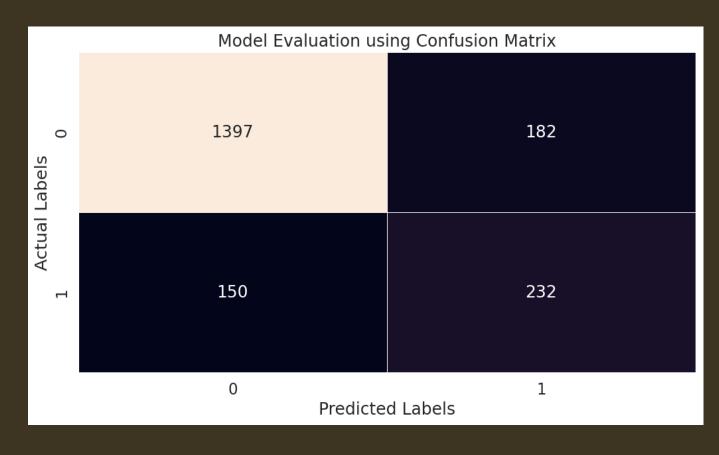
### Decision Tree Model

• The model has accuracy score of 88.05% on Training Data and 83.07% on Testing Data.

• F1 Score, Recall Score, and Precision Score of the Model are all nearly the same: 0.83

# Model ROC & Confusion Matrix



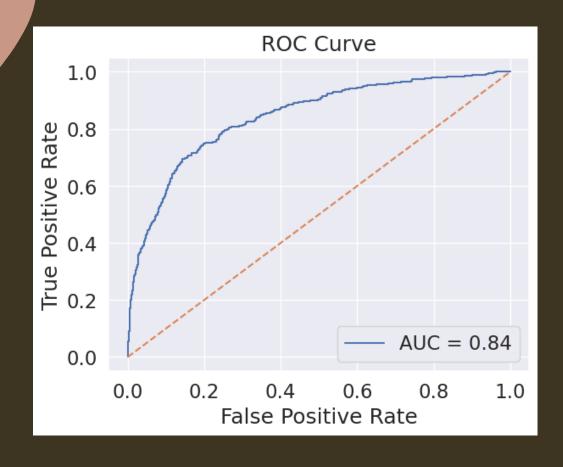


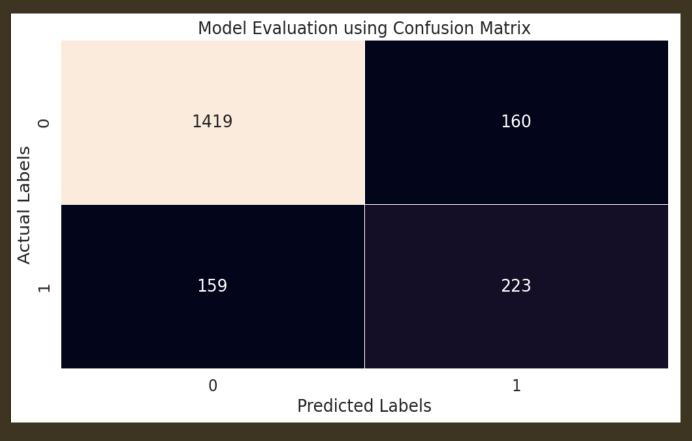
## Random Forest Model

• The model has accuracy score of 89.37% on Training Data and 83.73% on Testing Data.

• F1 Score, Recall Score, and Precision Score of the Model are all nearly the same too with 0.83

# Model ROC & Confusion Matrix



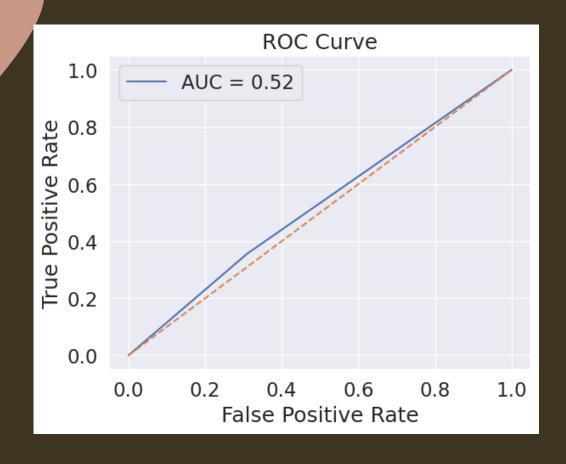


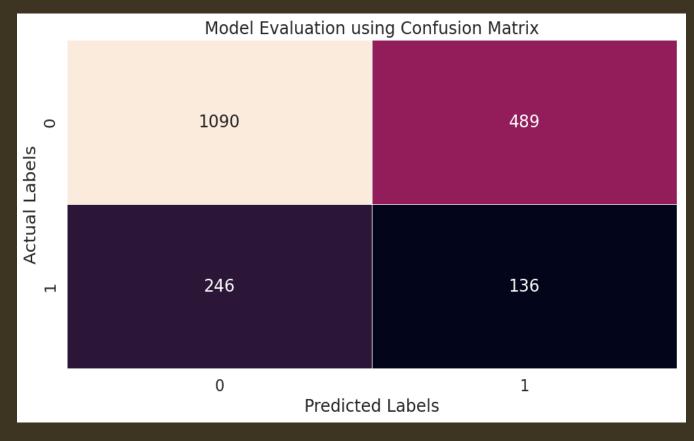
## KNN Model

• The model has accuracy score of 100.0% on Training Data and 62.52% on Testing Data.

 F1 Score, Recall Score, and Precision Score of the Model are all nearly the same too with 0.62

# Model ROC & Confusion Matrix





### Overall Model Performance

- Accuracy Score of Model on Training Data: 91.68%
- Accuracy Score of Model on Testing Data: 78.28%
- F1, Recall Score, and Precision Score of the Model: 0.78