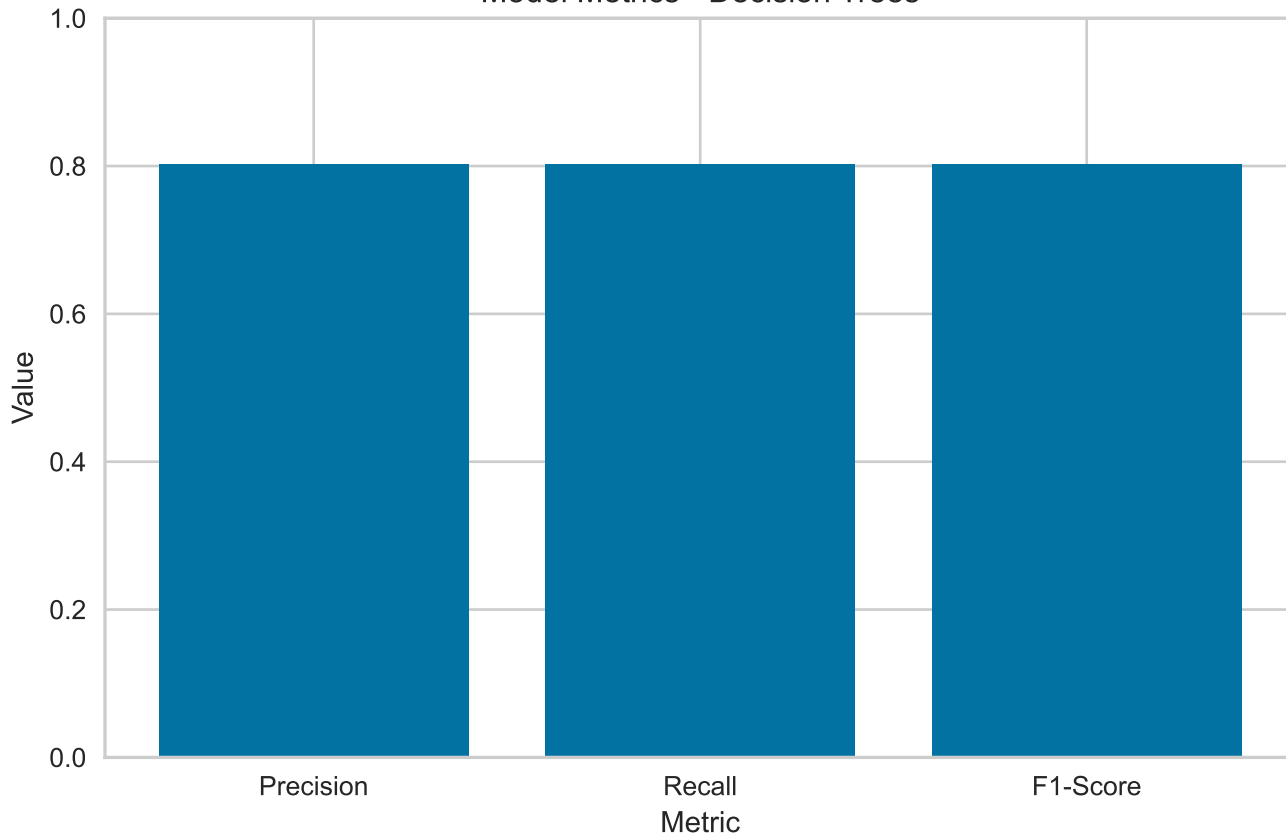
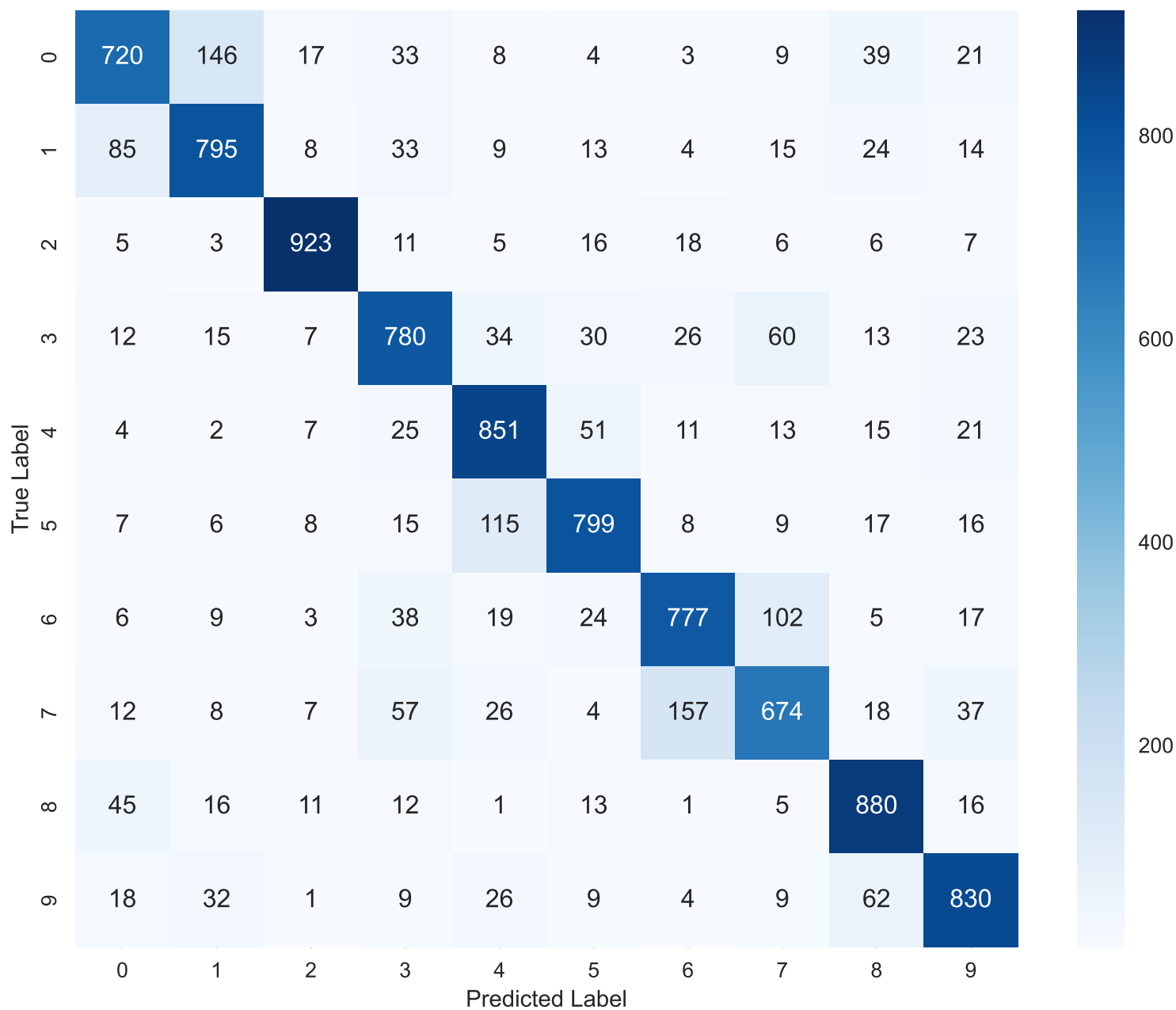


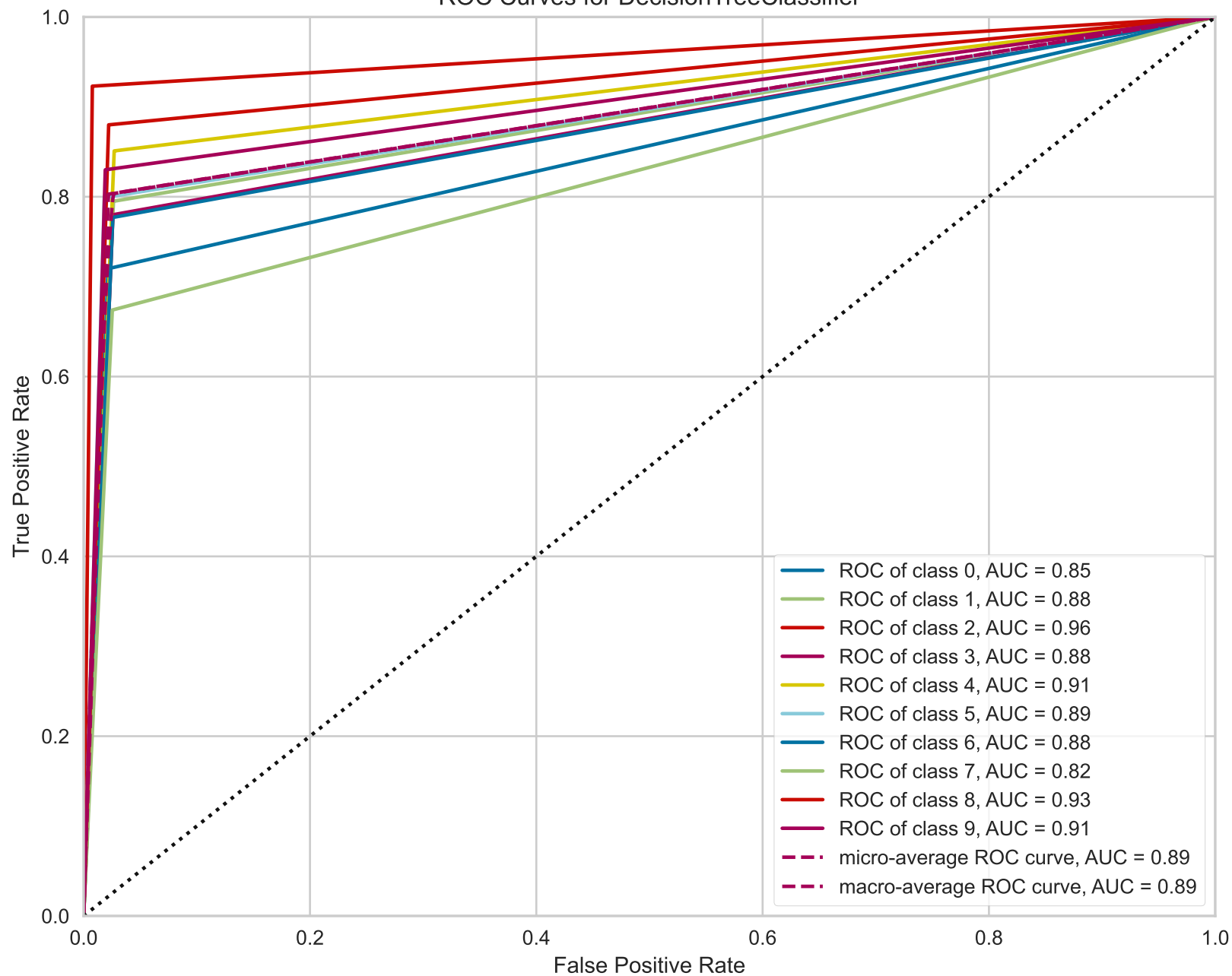
Model Metrics - Decision Trees



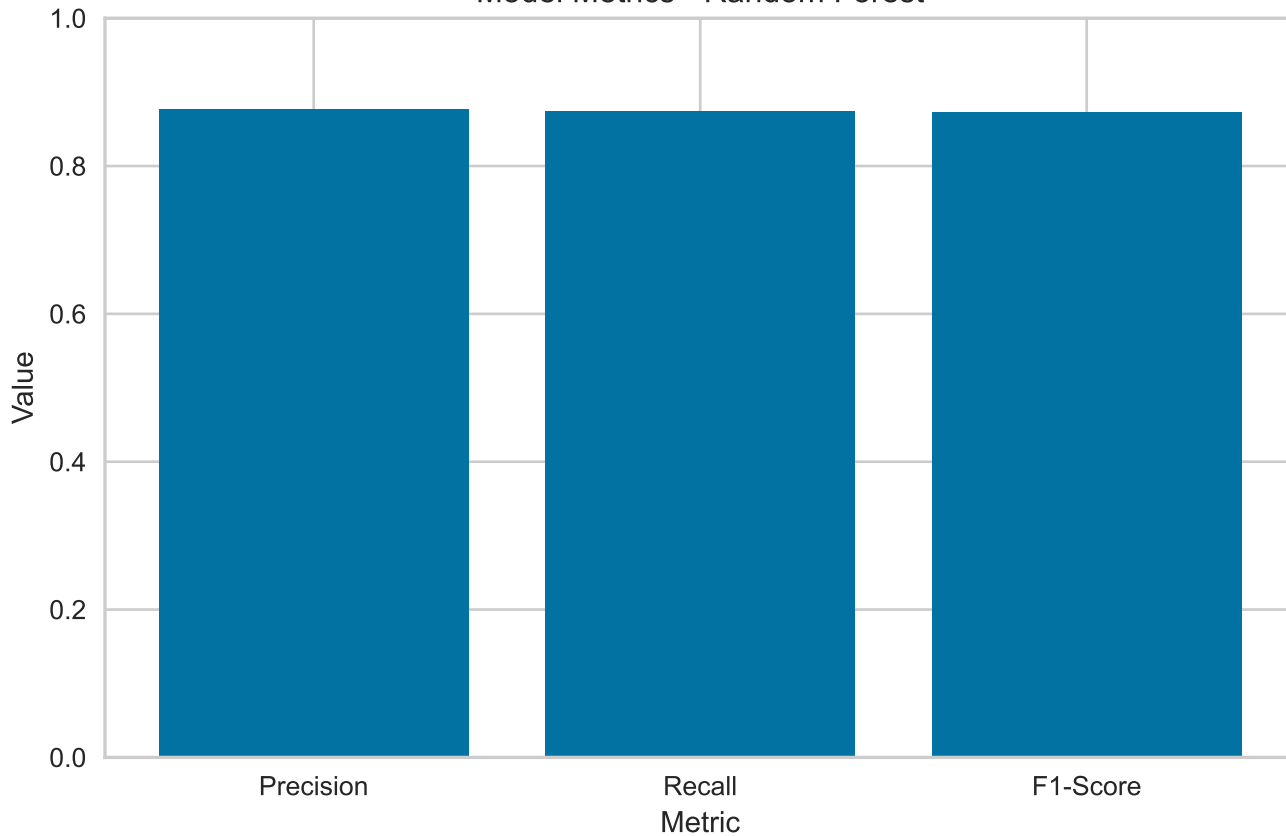
Decision Trees - Confusion Matrix



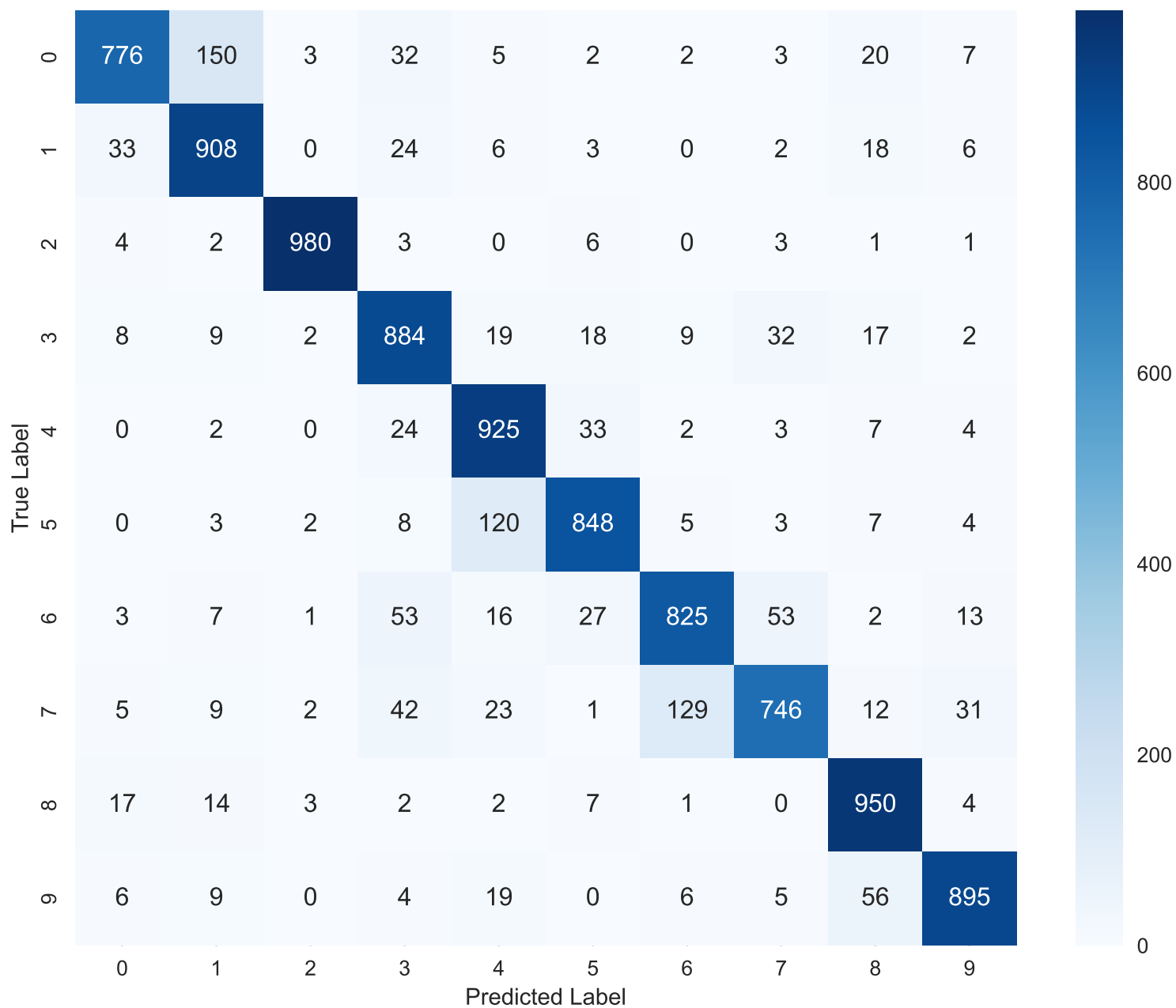
ROC Curves for DecisionTreeClassifier



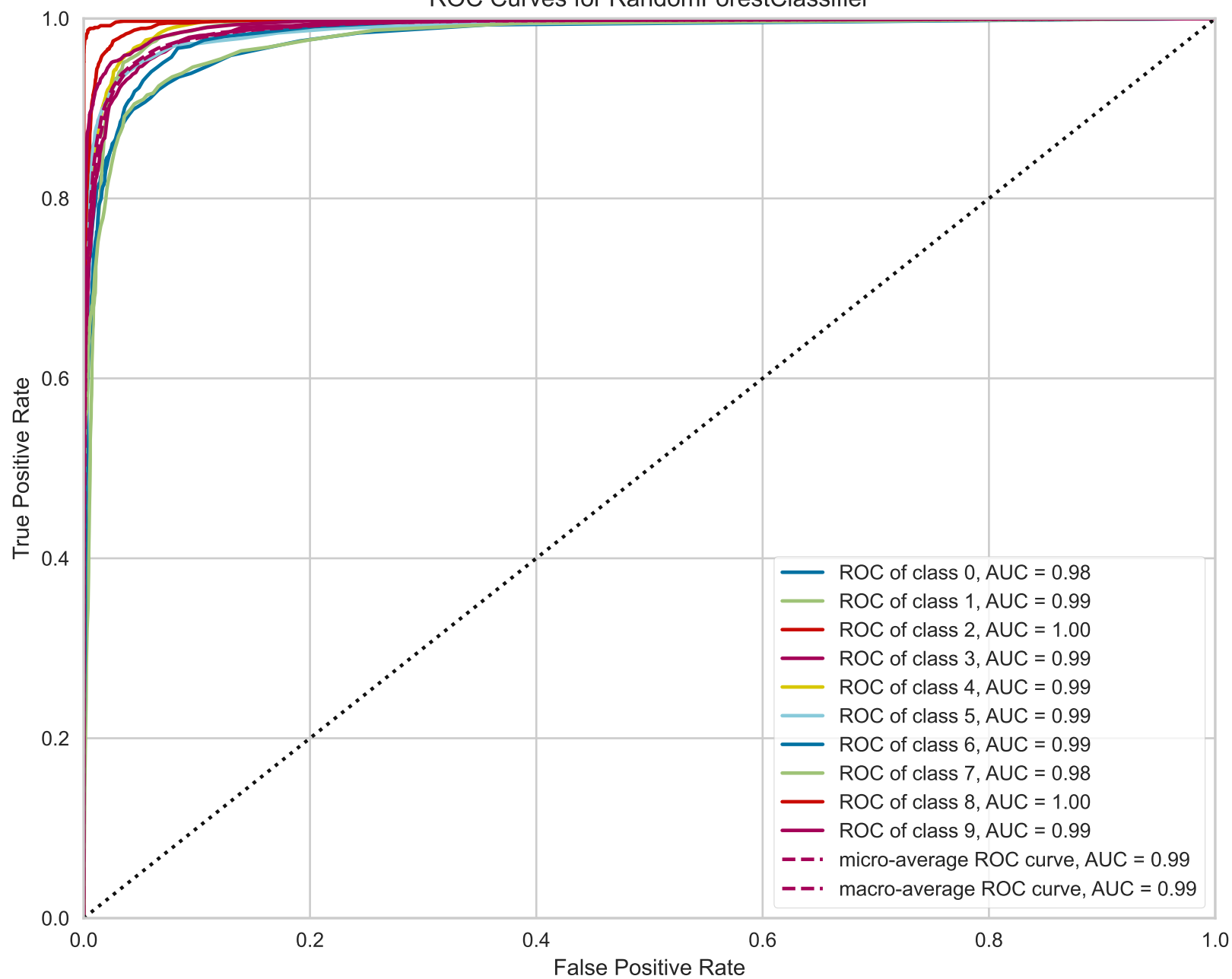
Model Metrics - Random Forest



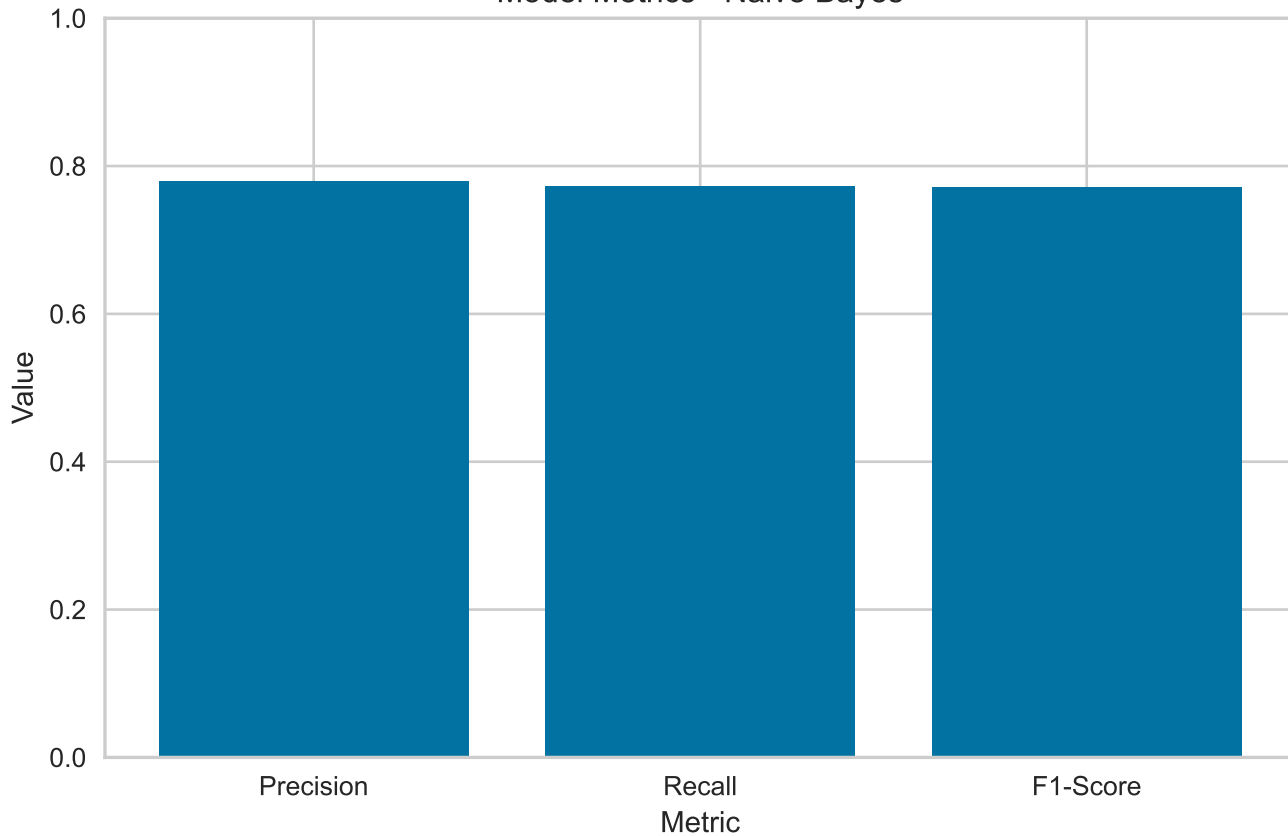
Random Forest - Confusion Matrix



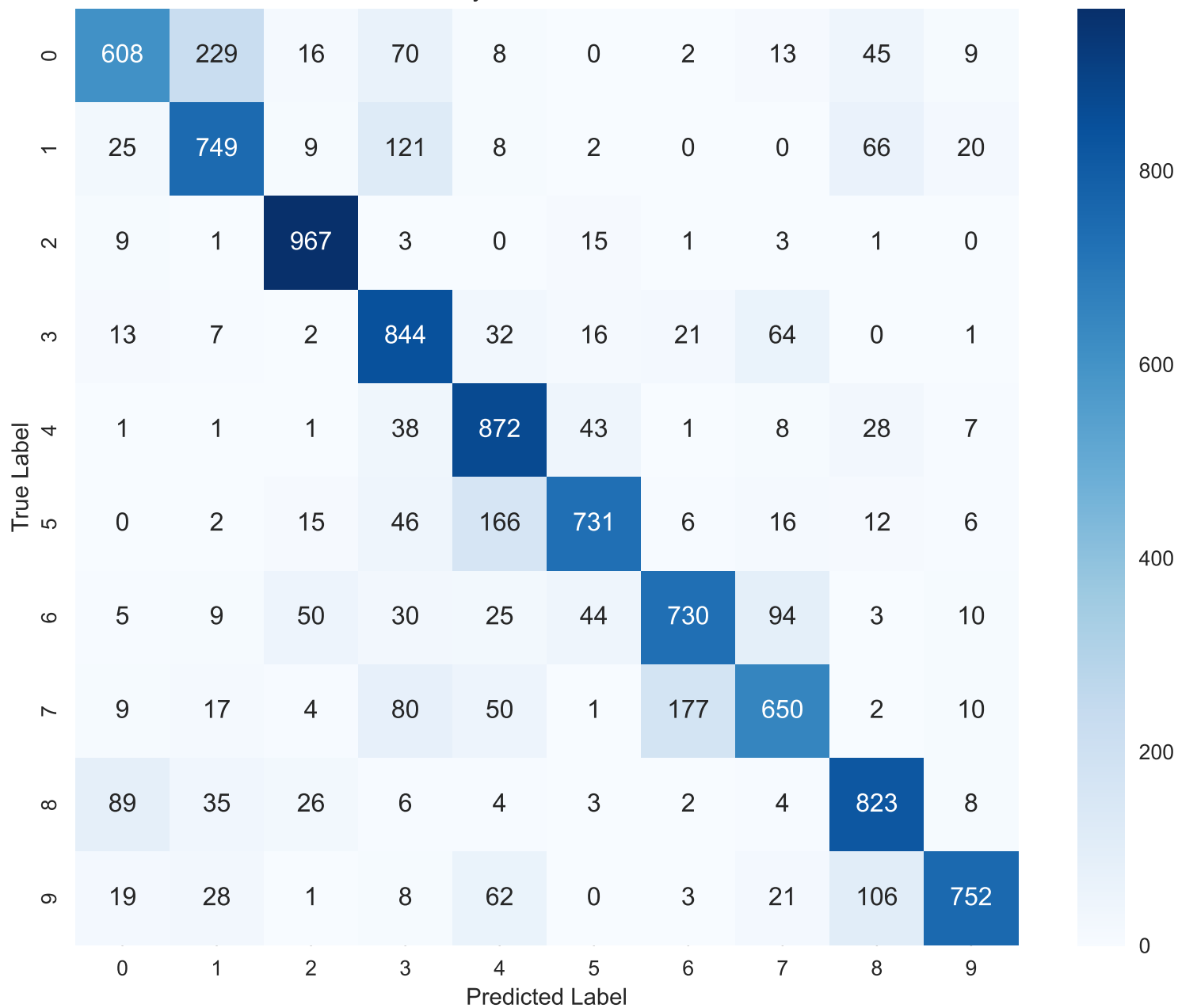
ROC Curves for RandomForestClassifier



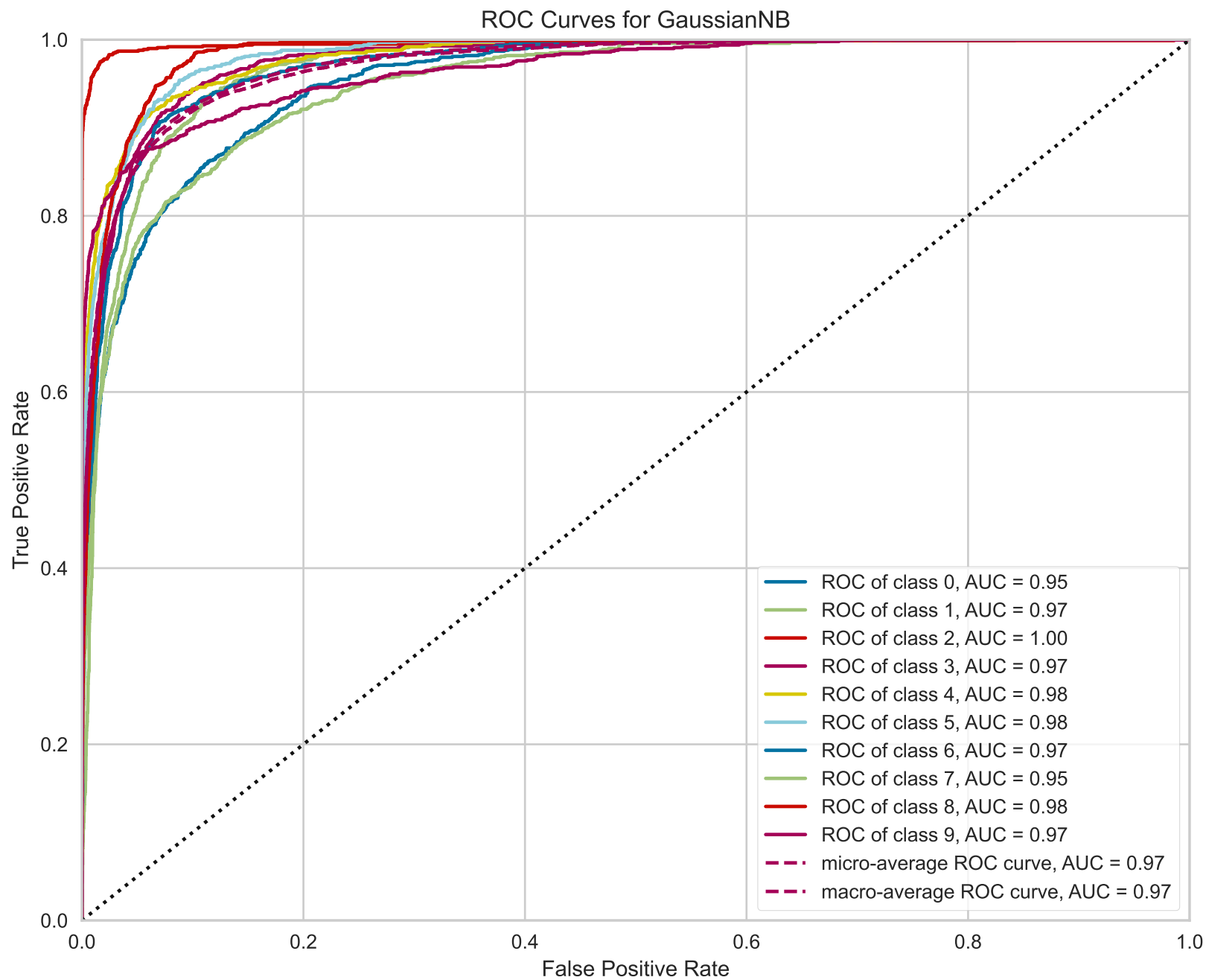
Model Metrics - Naive Bayes



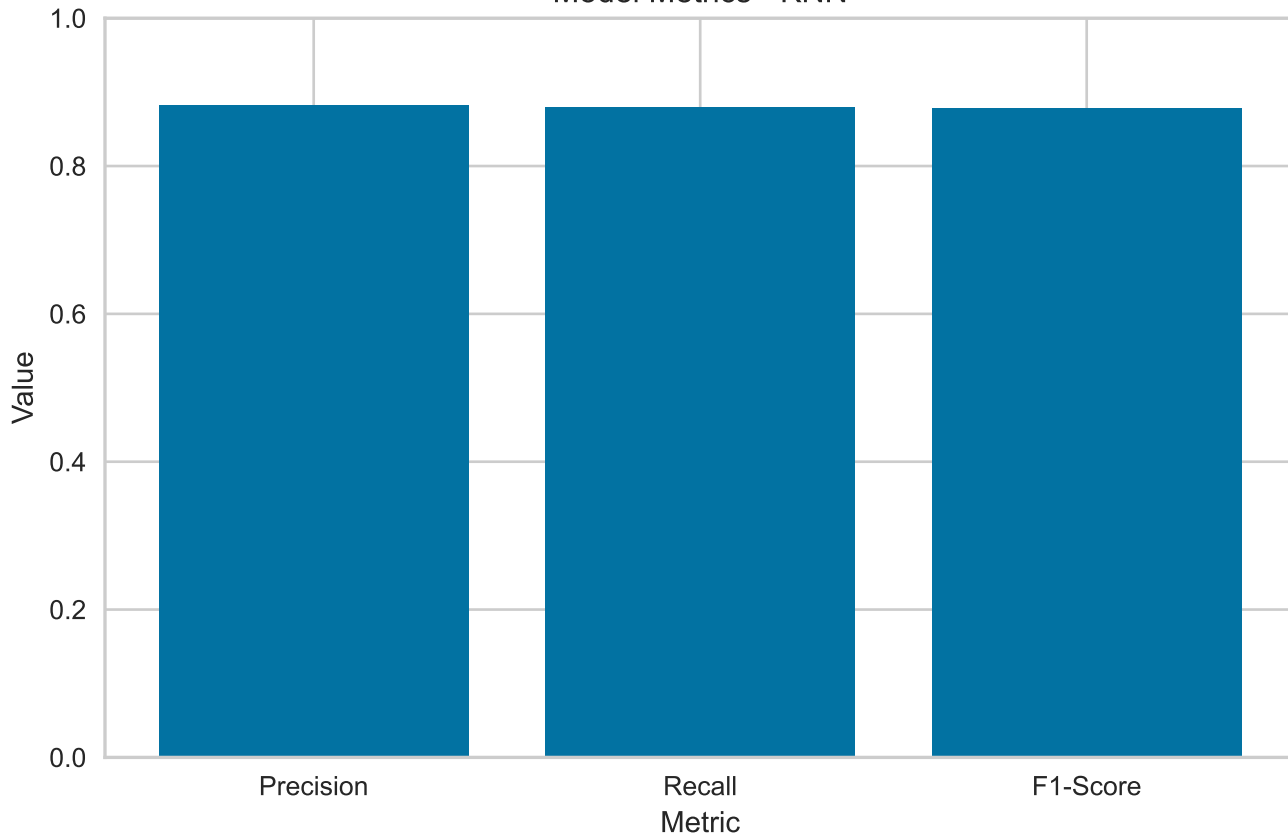
Naive Bayes - Confusion Matrix



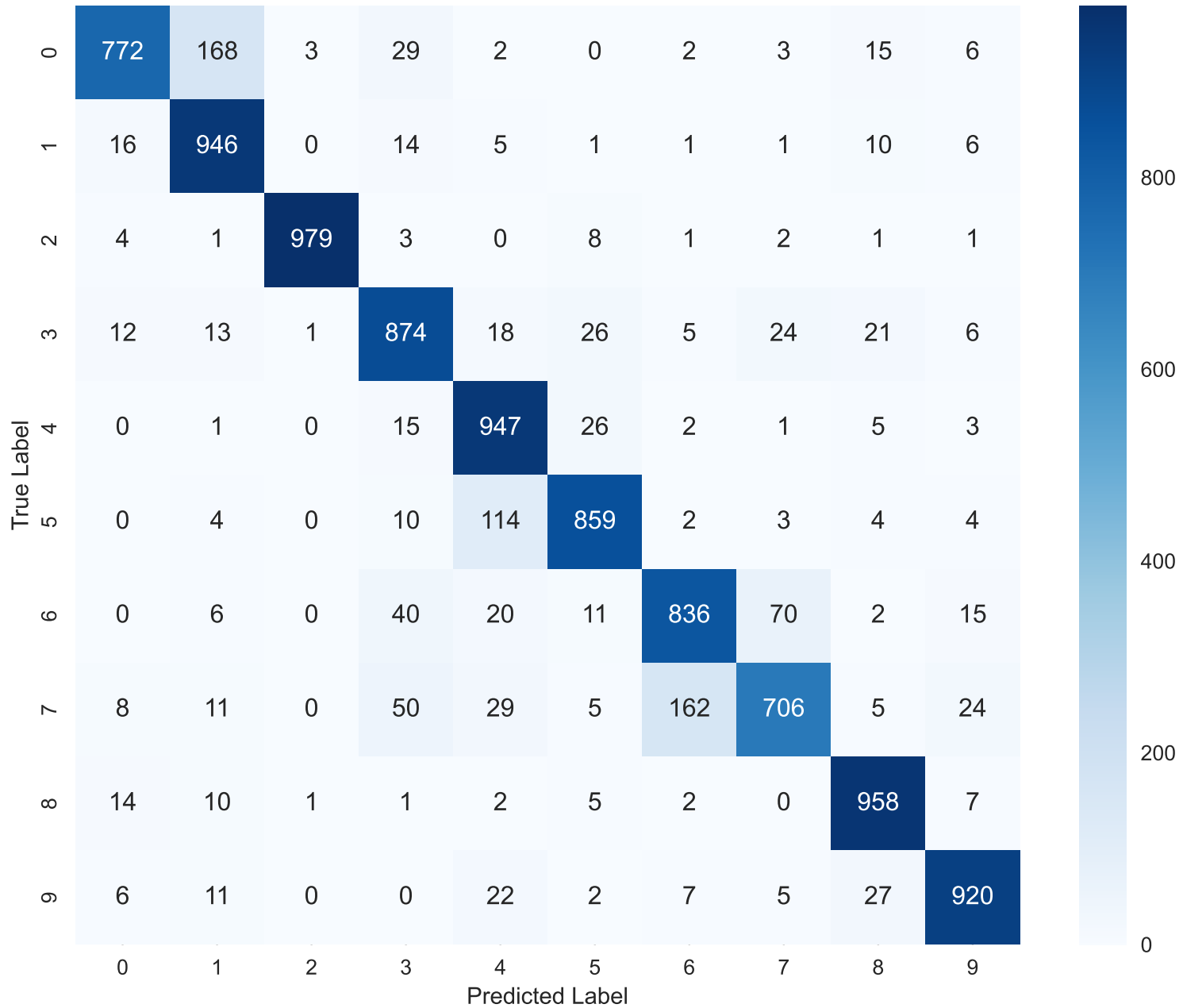




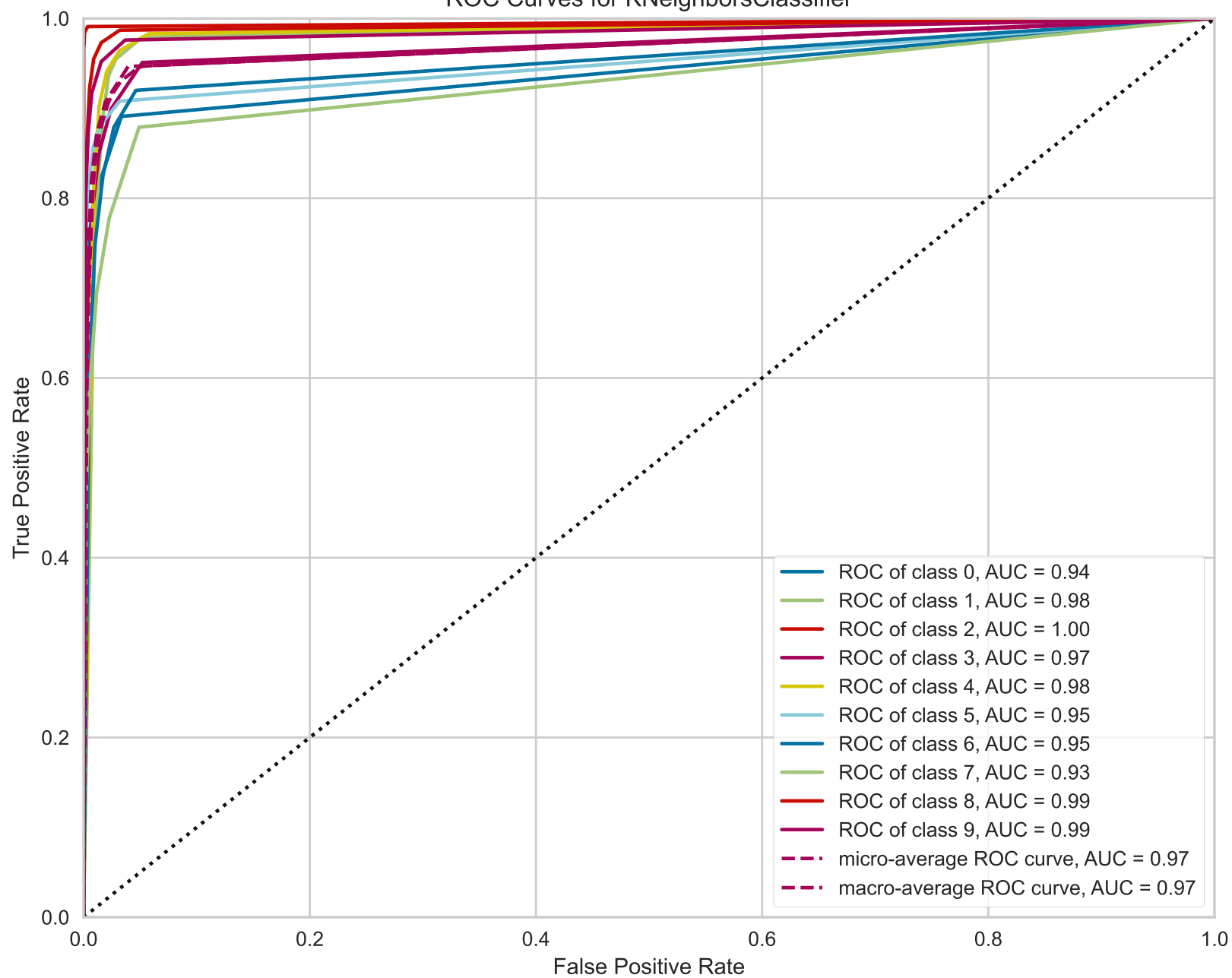
Model Metrics - KNN



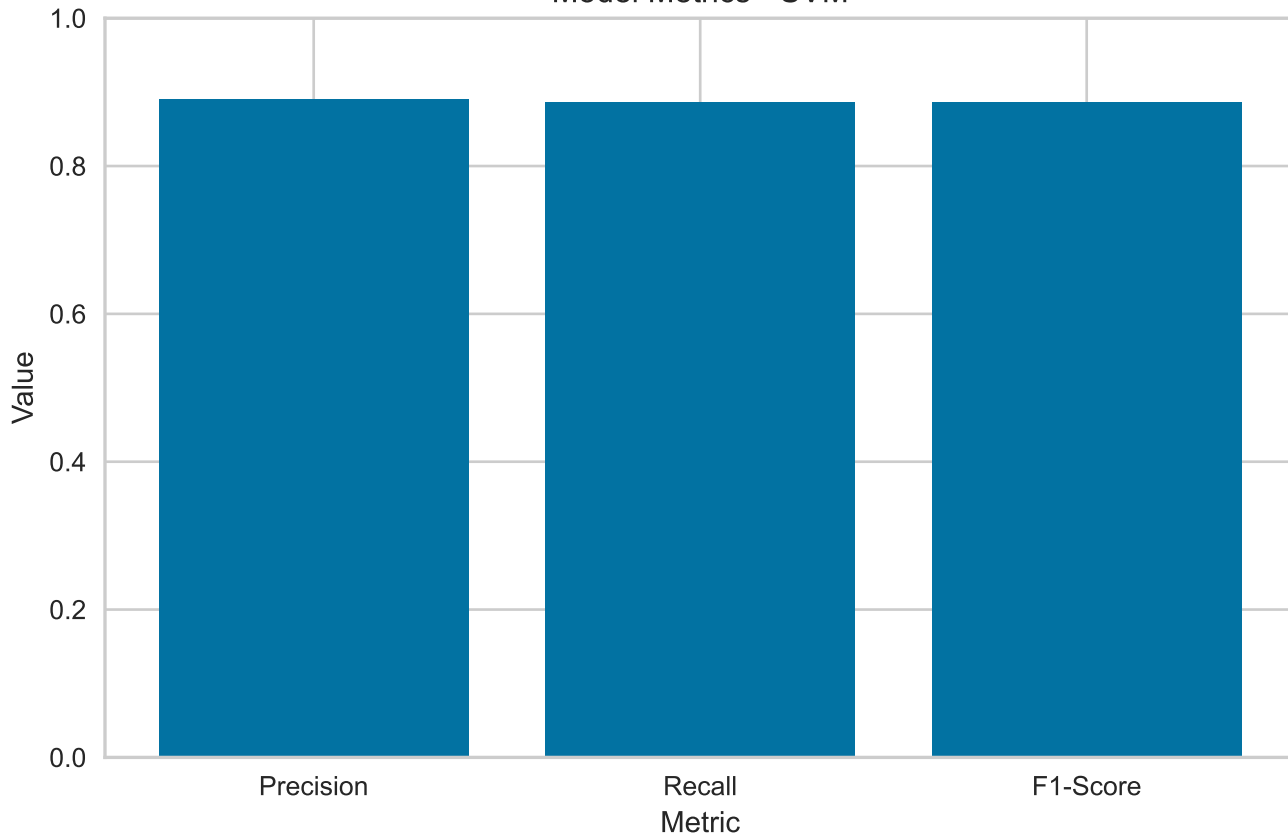
KNN - Confusion Matrix



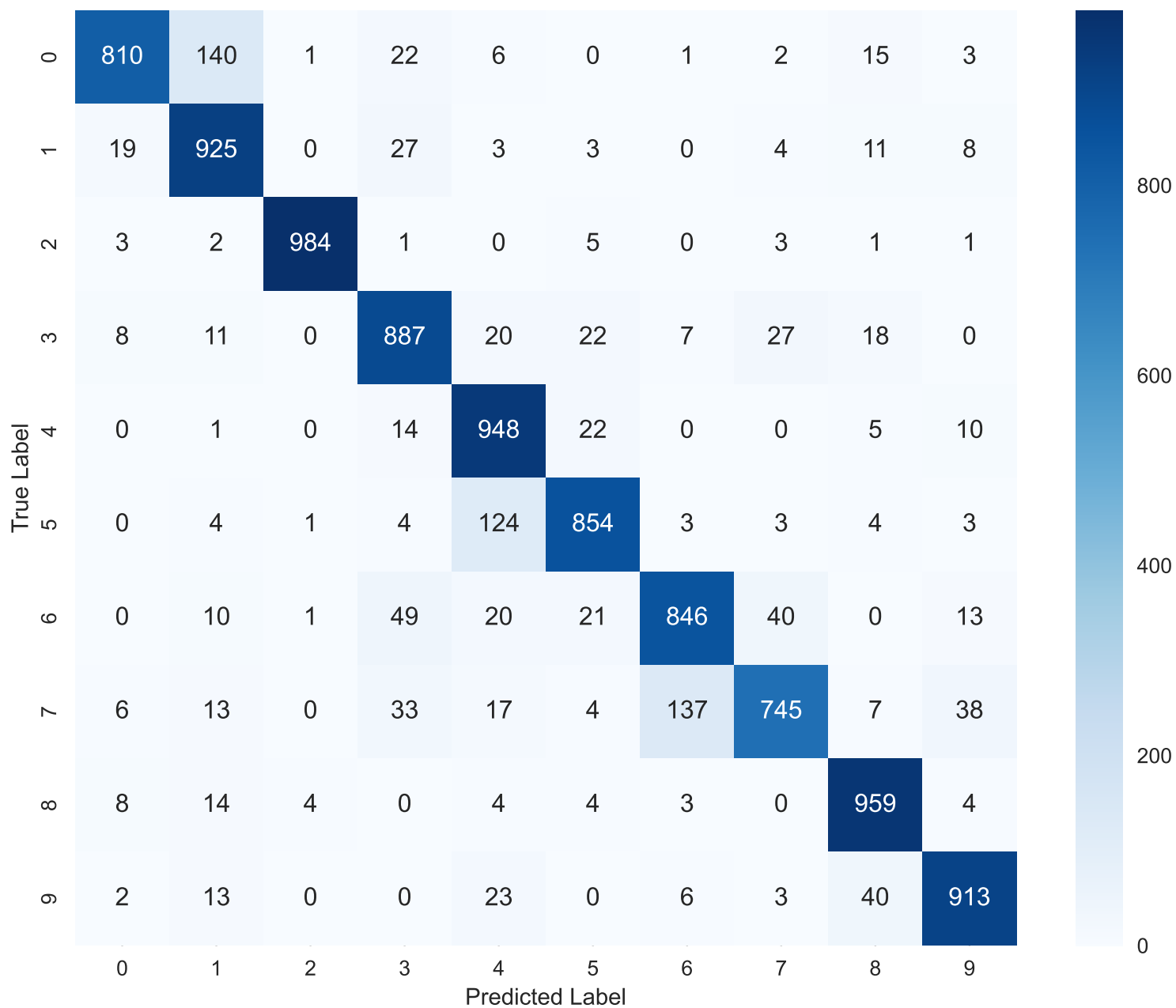
ROC Curves for KNeighborsClassifier



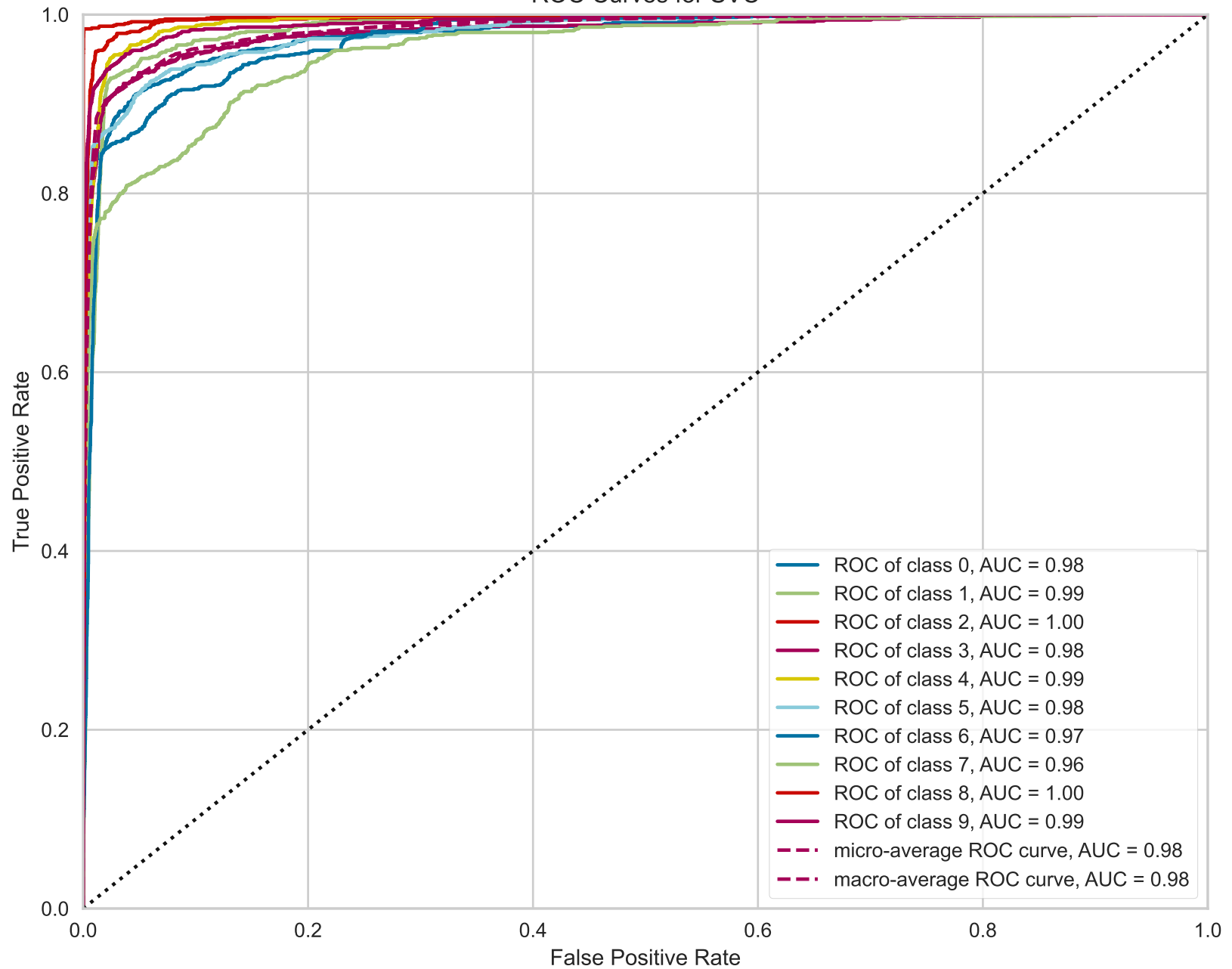
Model Metrics - SVM



SVM - Confusion Matrix



ROC Curves for SVC



## Model Comparison - PCA 10 components

| Model          | Precision          | Recall             | F1-Score           |
|----------------|--------------------|--------------------|--------------------|
| Decision Trees | 0.802731792677126  | 0.8029             | 0.8021338060116661 |
| Random Forest  | 0.8764859644788263 | 0.8737             | 0.8730371365099845 |
| Naive Bayes    | 0.7795895052600346 | 0.7726             | 0.7712103792829805 |
| KNN            | 0.8829702475496433 | 0.8797             | 0.8786107423627729 |
| SVM            | 0.8906538627217129 | 0.8870999999999999 | 0.886549453435349  |