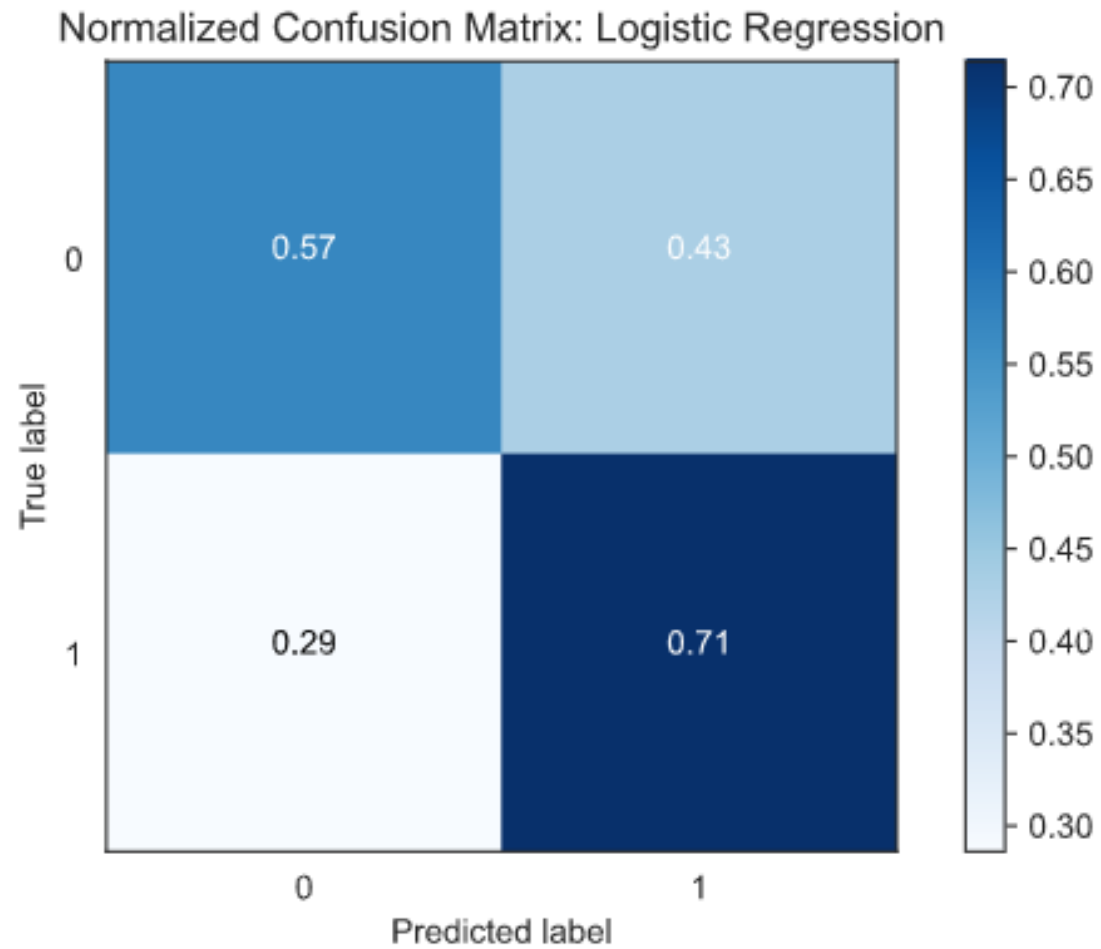# Credit Card Approval Prediction Using Sklearn

PROBLEM

- Credit score cards are a common risk control method in the financial industry.

- The bank is able to decide whether to issue a credit card to the applicant.

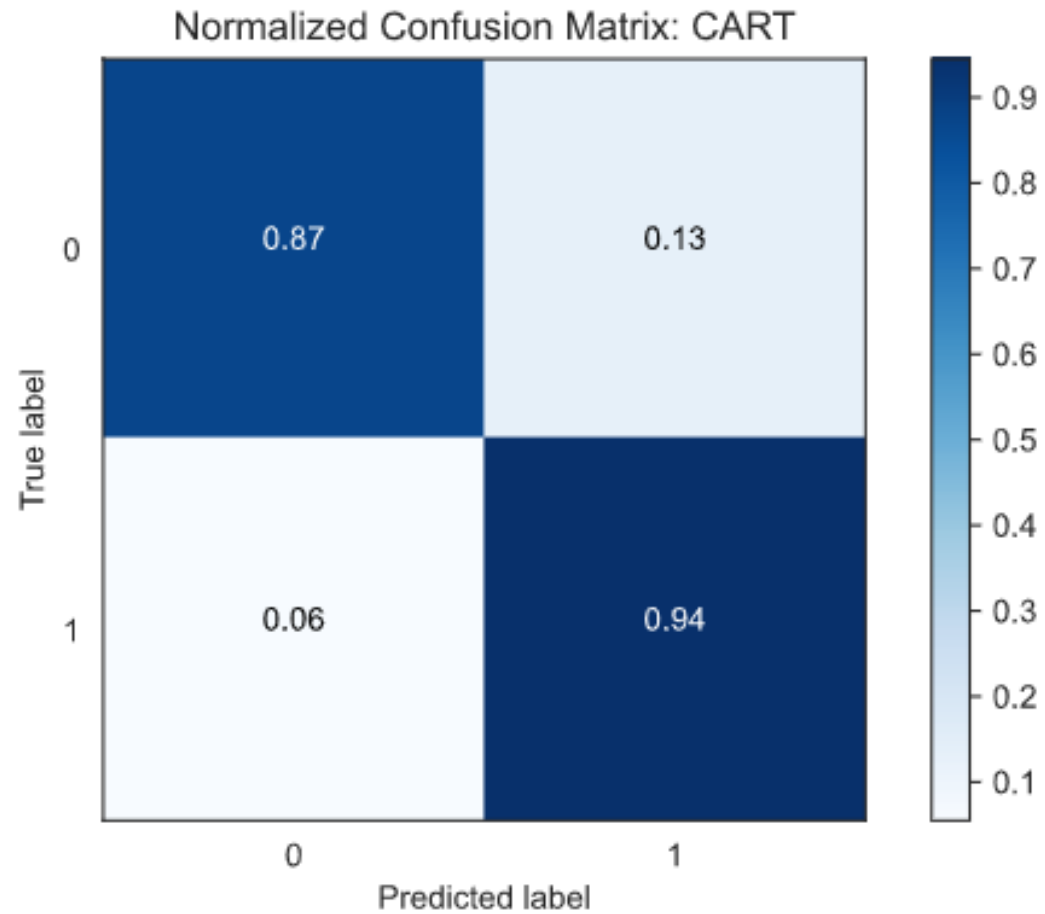- Credit scores can objectively quantify the magnitude of risk.

DATA SET

- Data from: https://www.kaggle.com/rikdifos/credit-card-approval-prediction

- Data: Credit Card Approval Prediction

- Features: Binary Features, Continuous Variables, Categorical Features

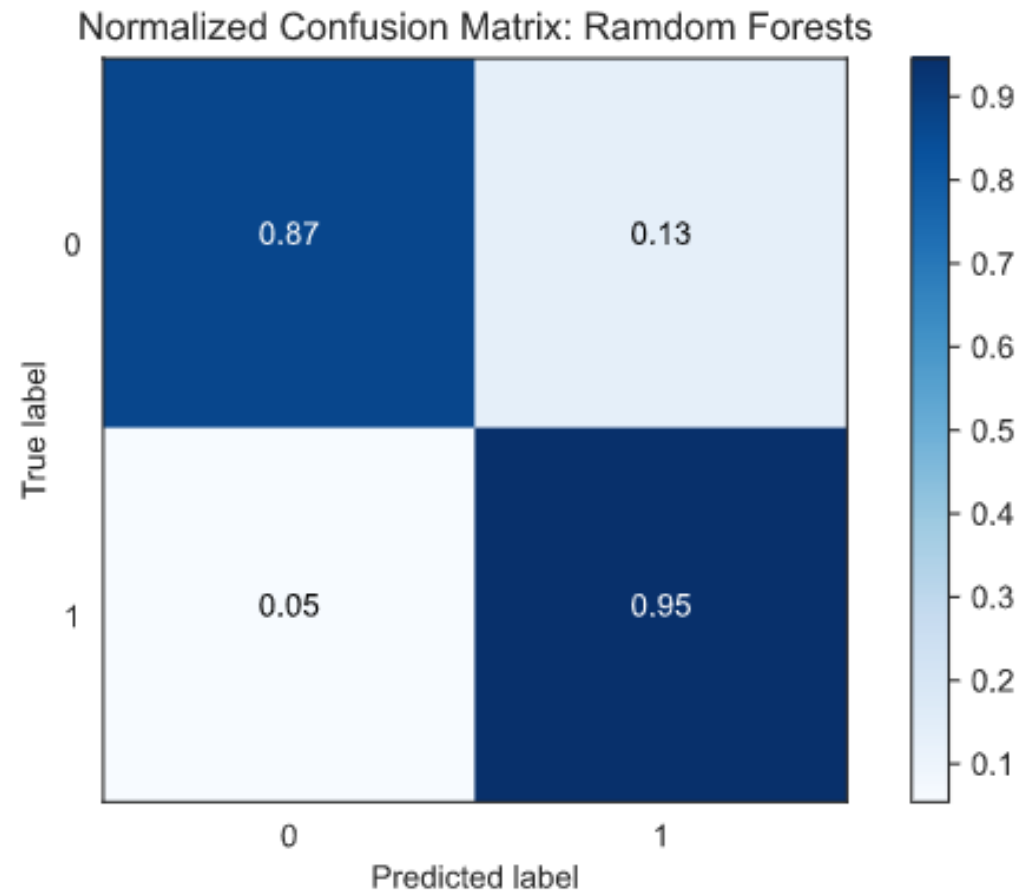- Algorithms: Logistic Regression, Decision Tree, Random Forest, SVM
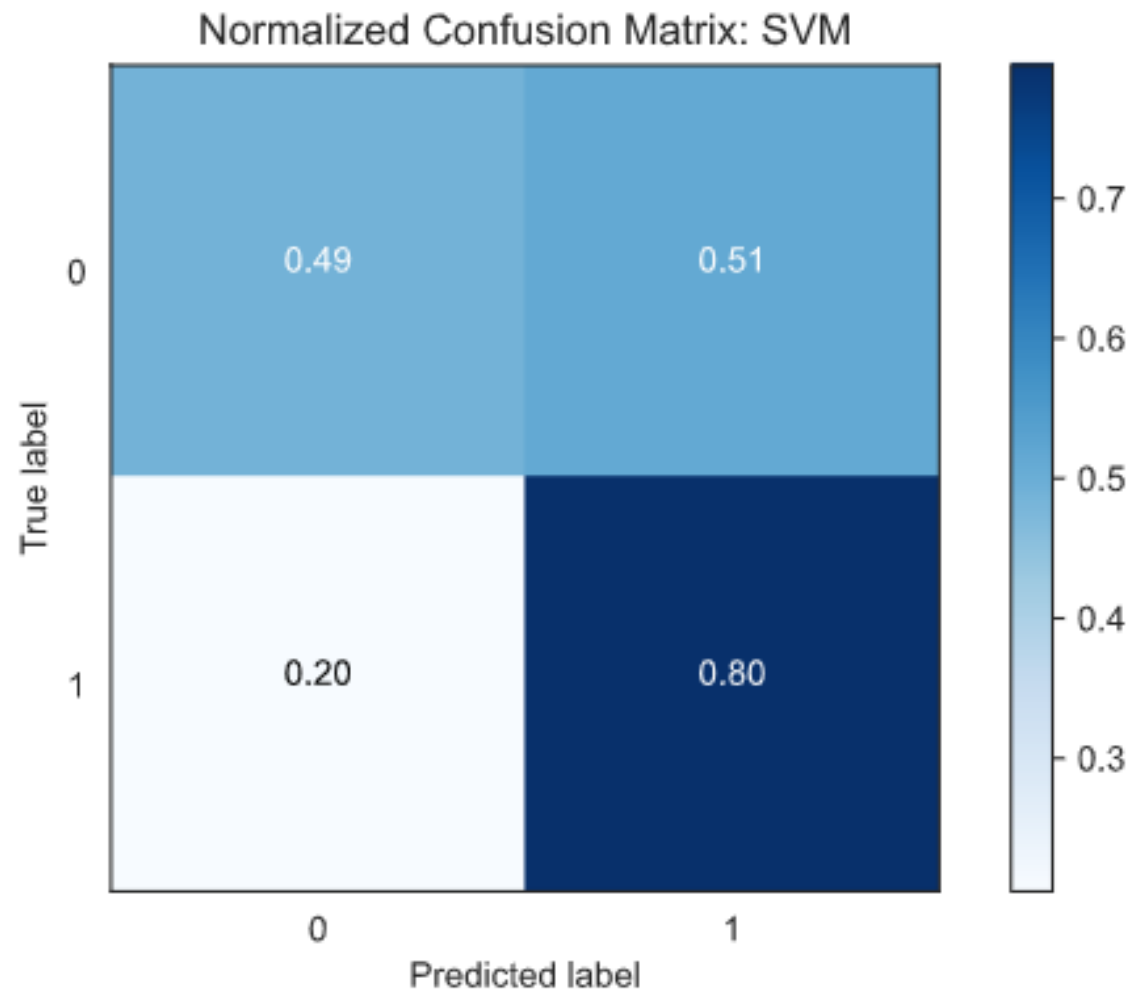
LOGISTIC REGRESSION

DECISION TREE

Normalized Confusion Matrix: CART

RANDOM FOREST

Normalized Confusion Matrix: Ramdom Forests

SVM

Normalized Confusion Matrix: SVM

RESULTS

- The plot shows how classification accuracy value varies across every epochs of training.

- The validation and train accuracy have no big difference.