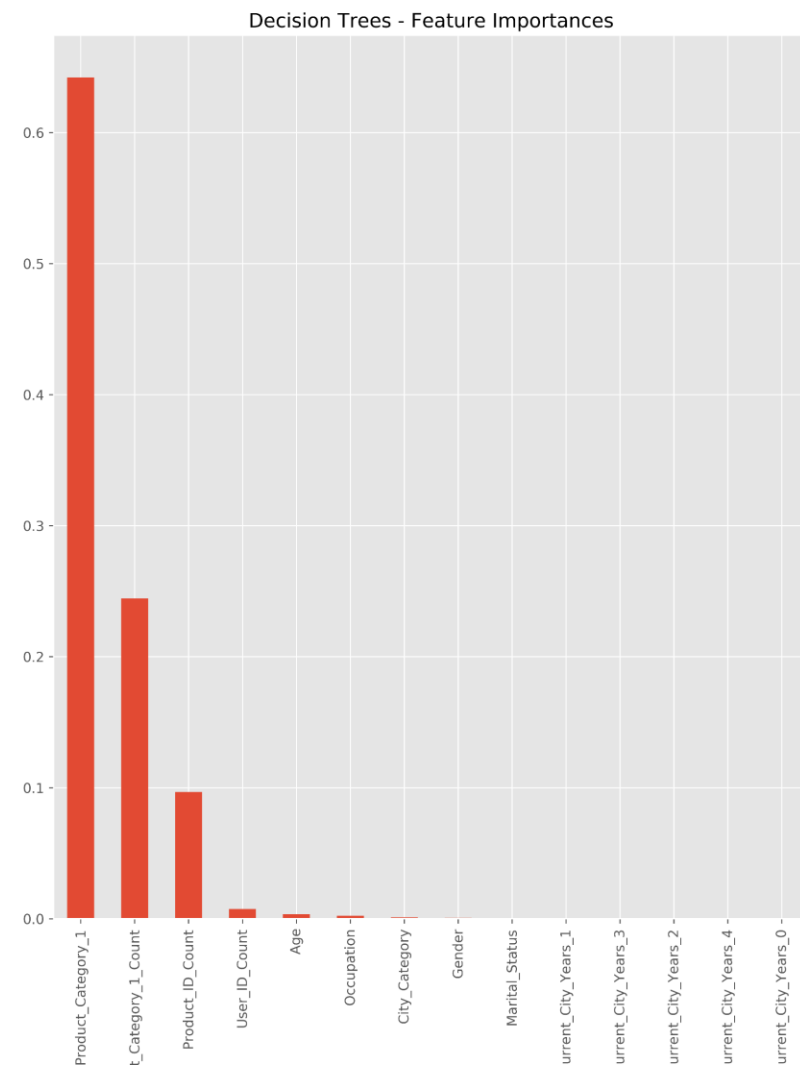
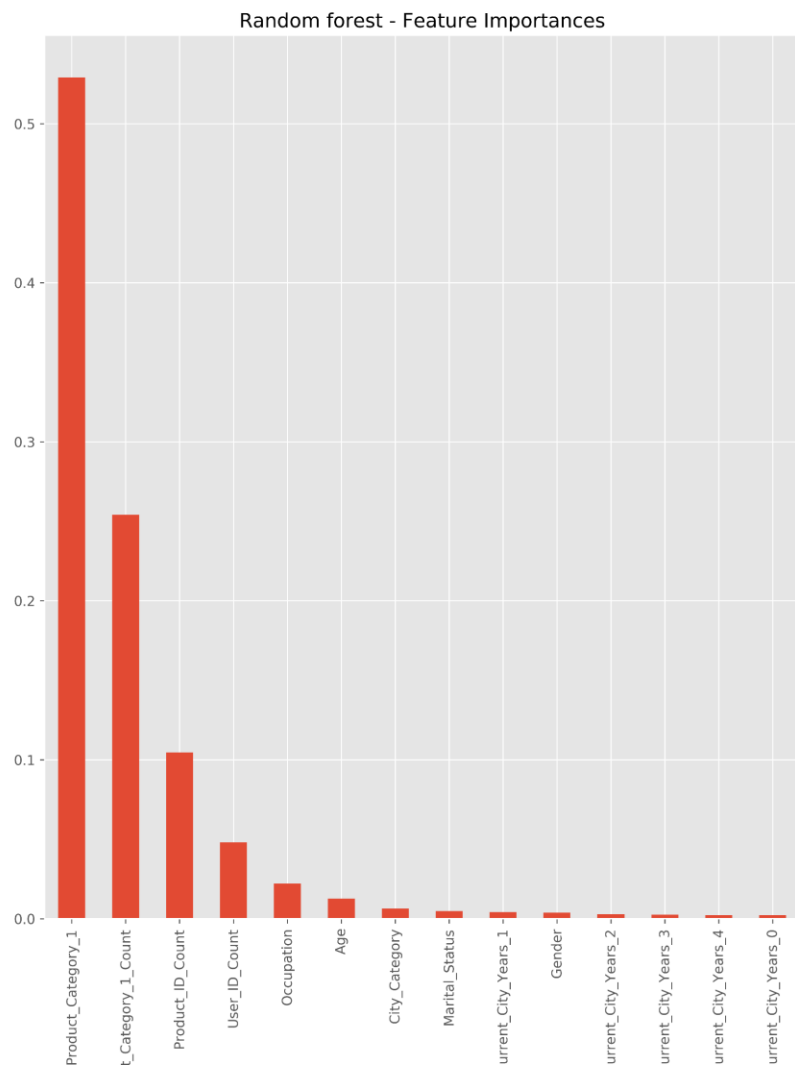
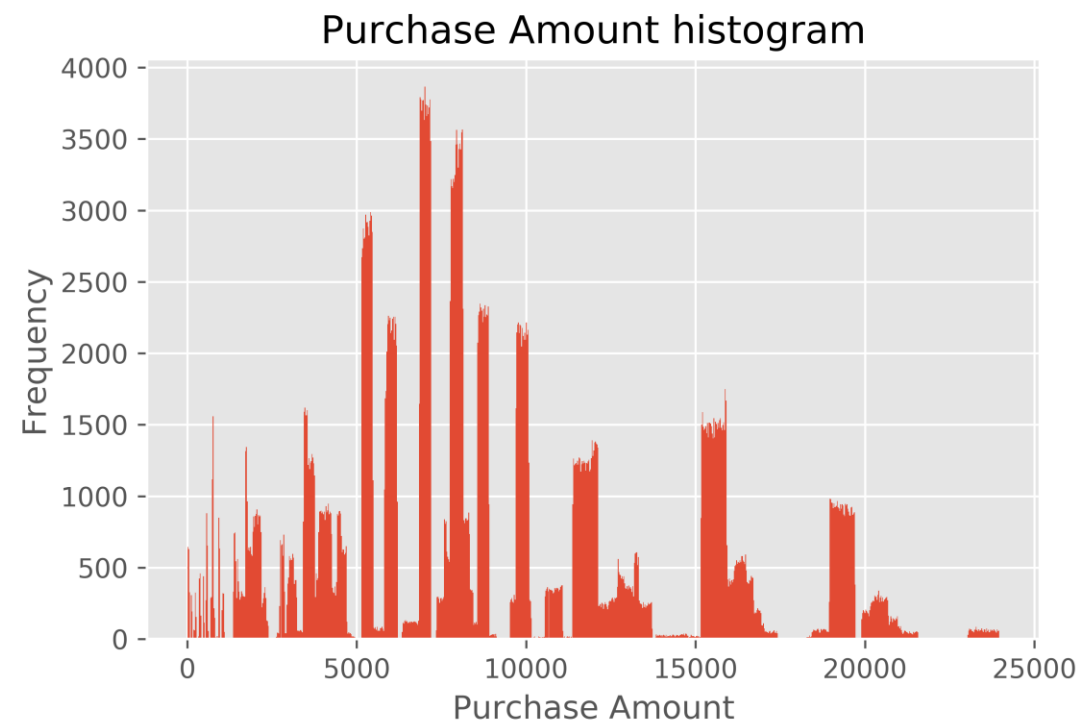


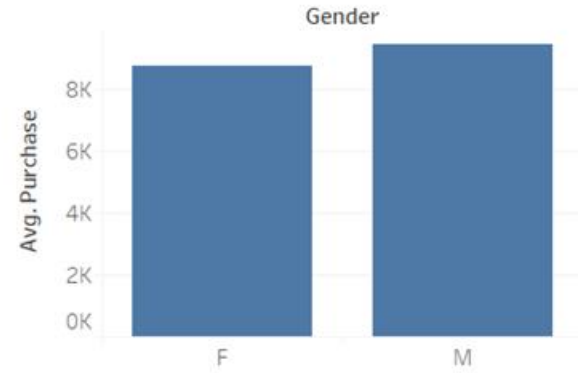
Statistical Machine Learning – Fall 2019
Purchase Capacity Prediction based on User
demographics and Product information

Keerthiraj Nagaraj
Electrical and Computer Engineering, University of Florida

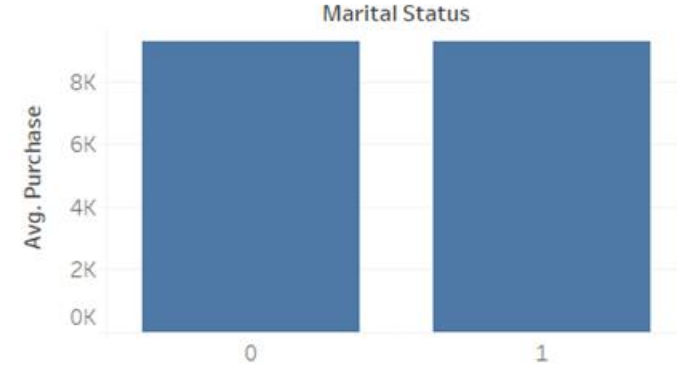




Average Purchase Vs Gender



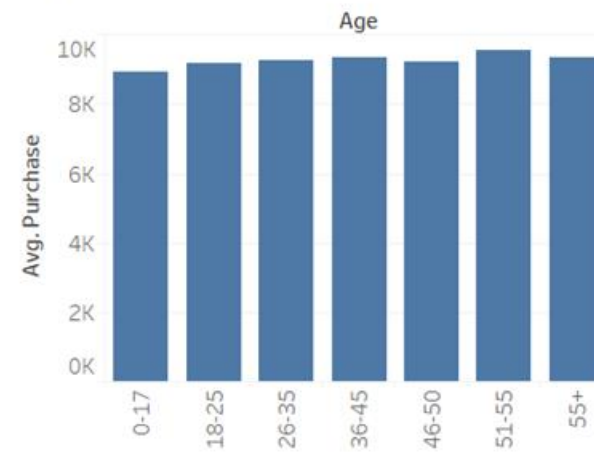
Average Purchase Vs Marital Status



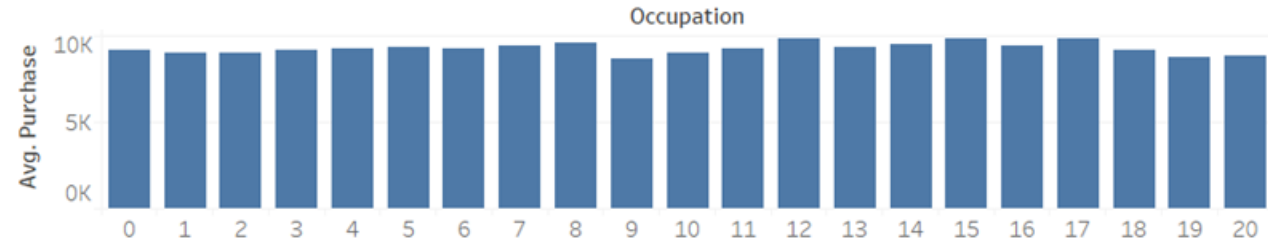
Average Purchase Vs City Category



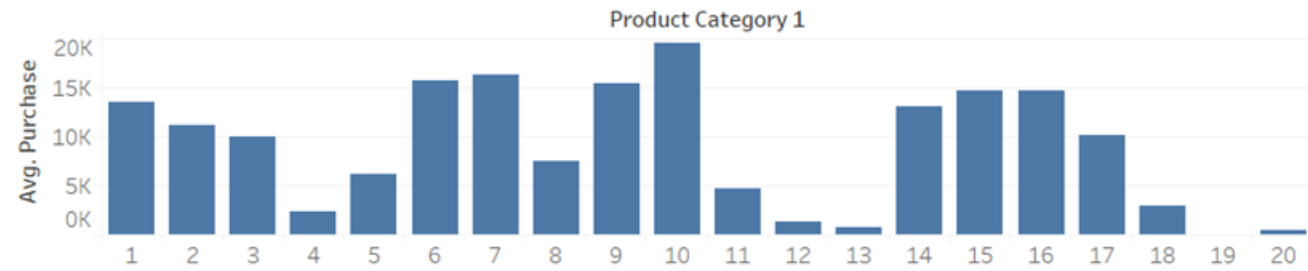
Average Purchase Vs Age



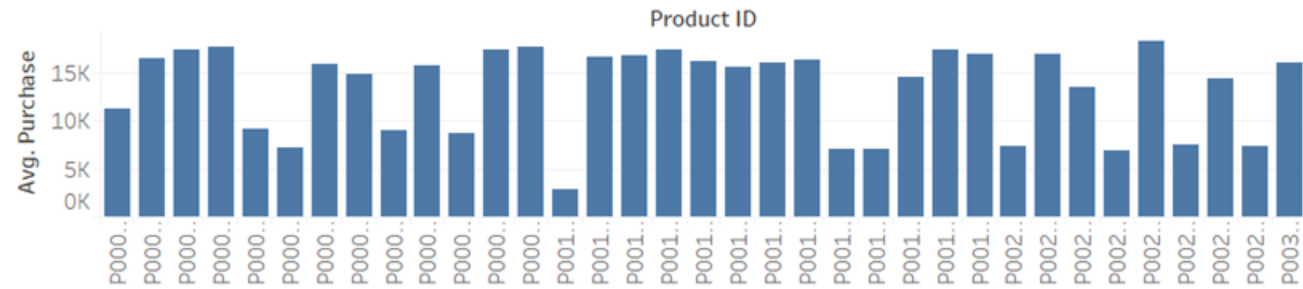
Average Purchase Vs Product Category



Average Purchase Vs Product Category



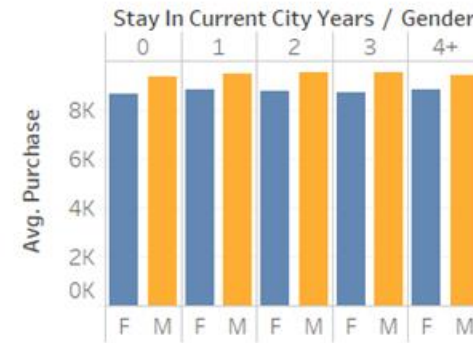
Average Purchase Vs Product ID (with >1000 data entries)



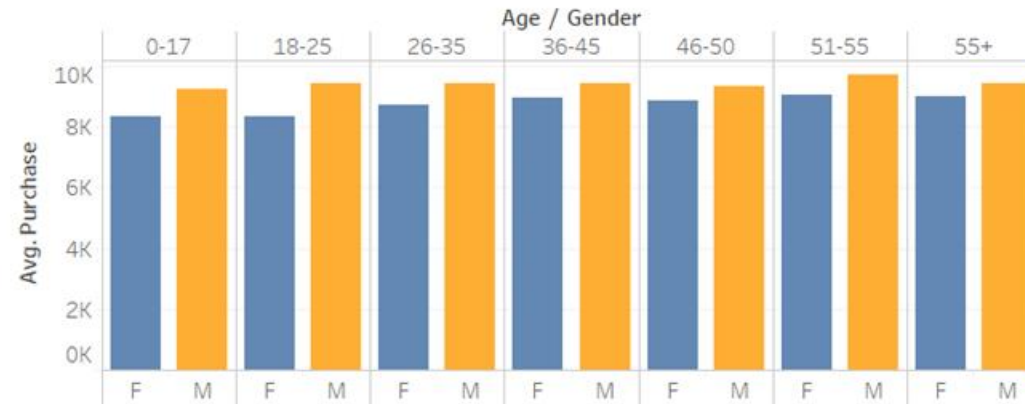
Average Purchase Vs City Category & Gender & Marital status



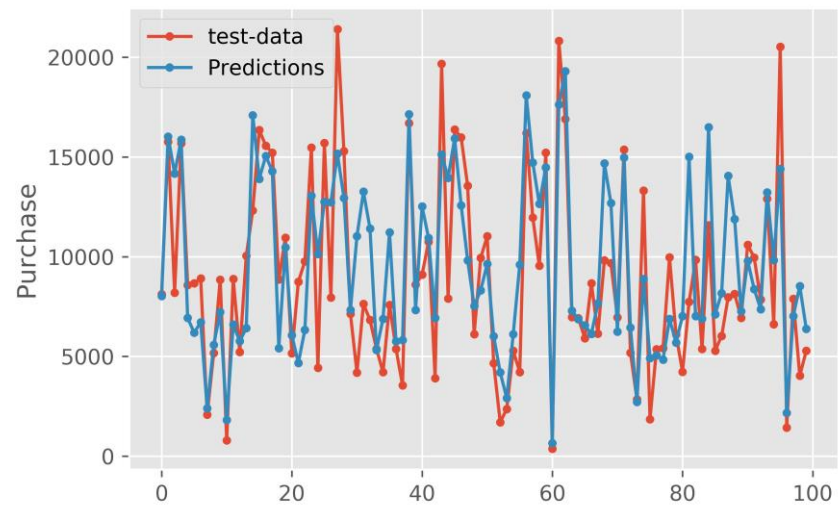
Average Purchase Vs Stay in current city and Gender



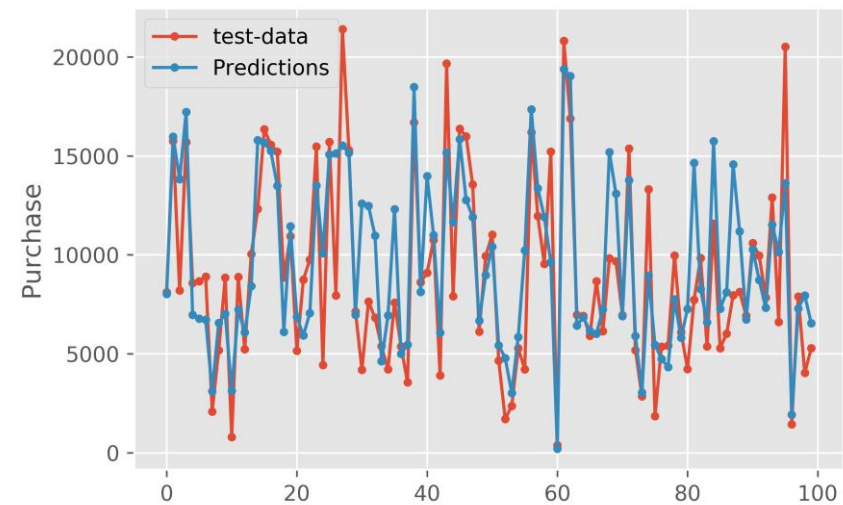
Average Purchase Vs Age groups and Gender



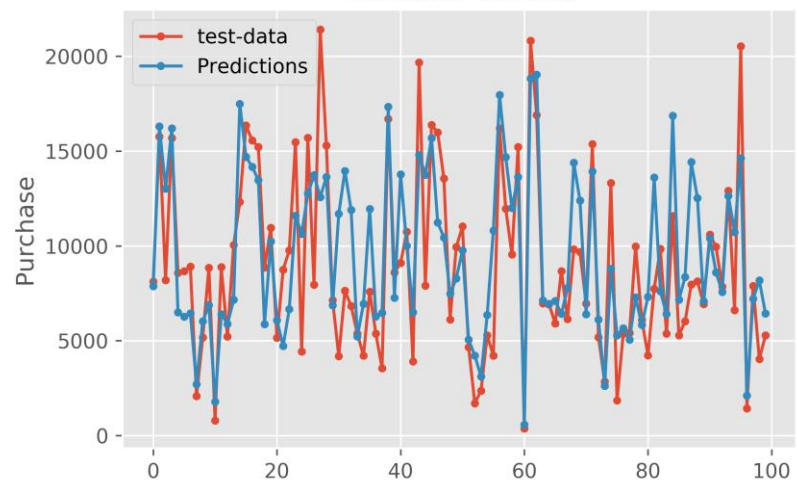
Decision Trees



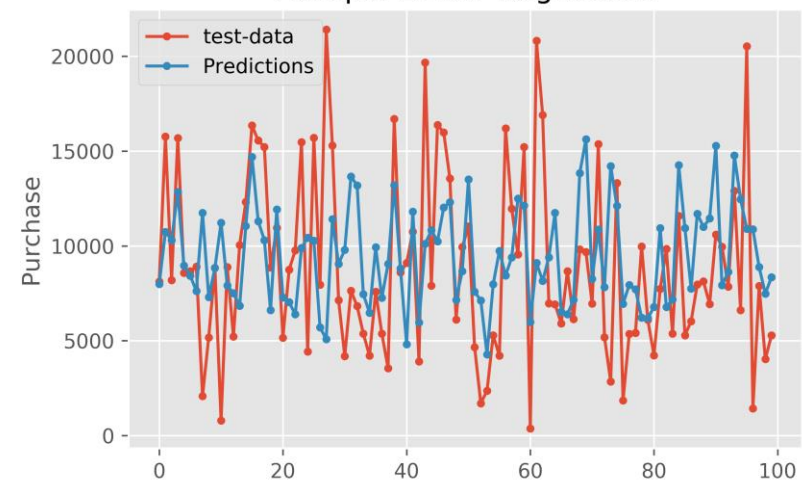
XGBoost



Random Forest



Multiple Linear Regression



Test Vs Predictions for various regression models

