

CS 418 Final Project

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1. Problem Selection
2. Data Collection
3. Data Preparation
4. Data Exploration

Figure 1: Drug Usage

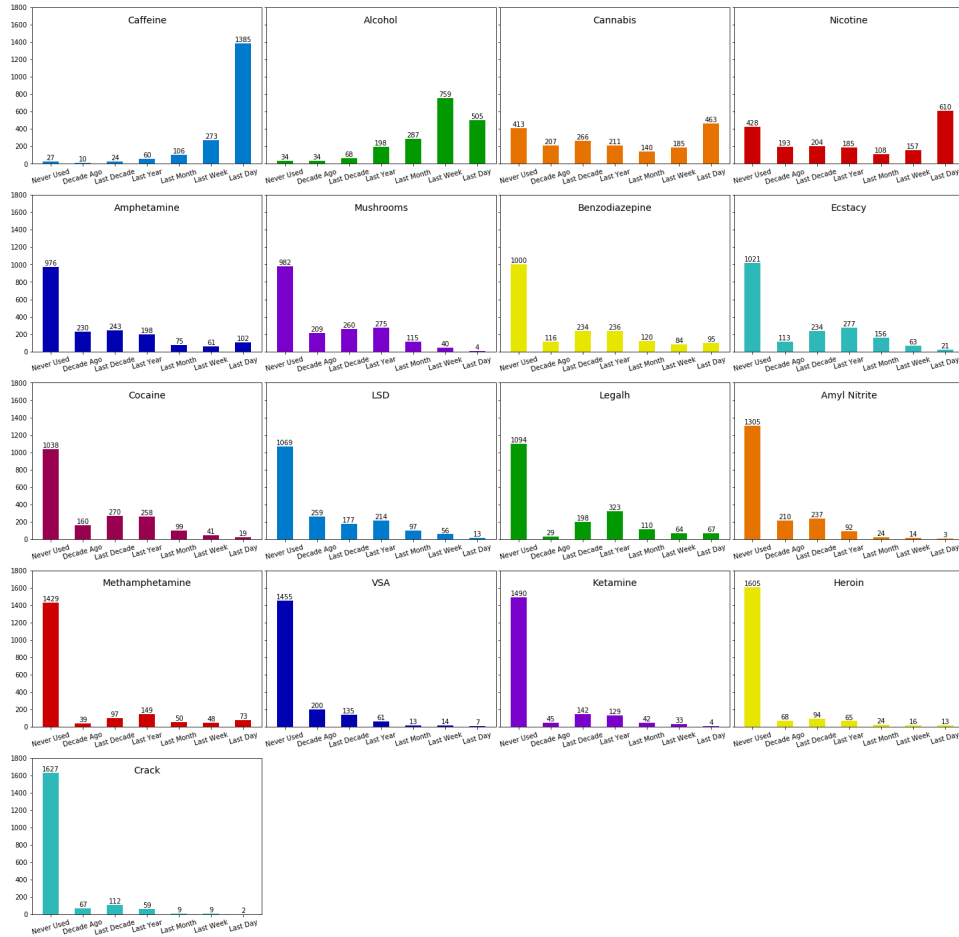
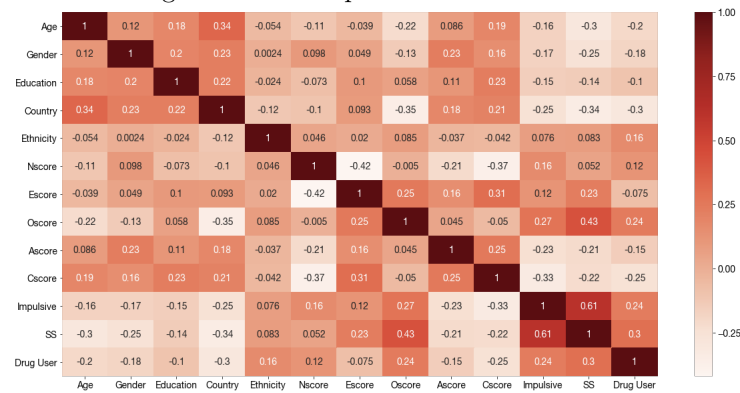


Figure 2: Heatmap of Correlation Matrix



5. Data Modeling

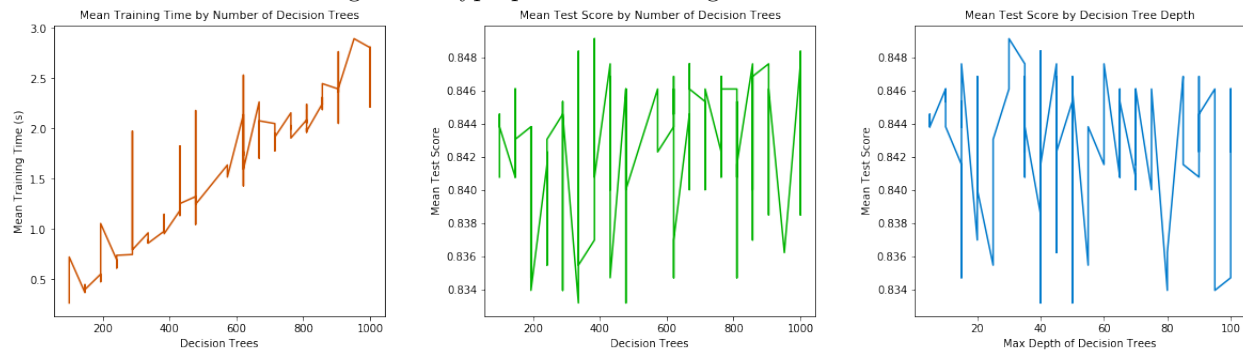
Decision Tree Classifier

Random Forest Classifier

Feature Selection

Grid Search

Figure 3: Hyperparameter Tuning with Grid Search



Clustering

6. Results