CS 418 Final Project

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1. Problem Selection

2. Data Collection

3. Data Preparation
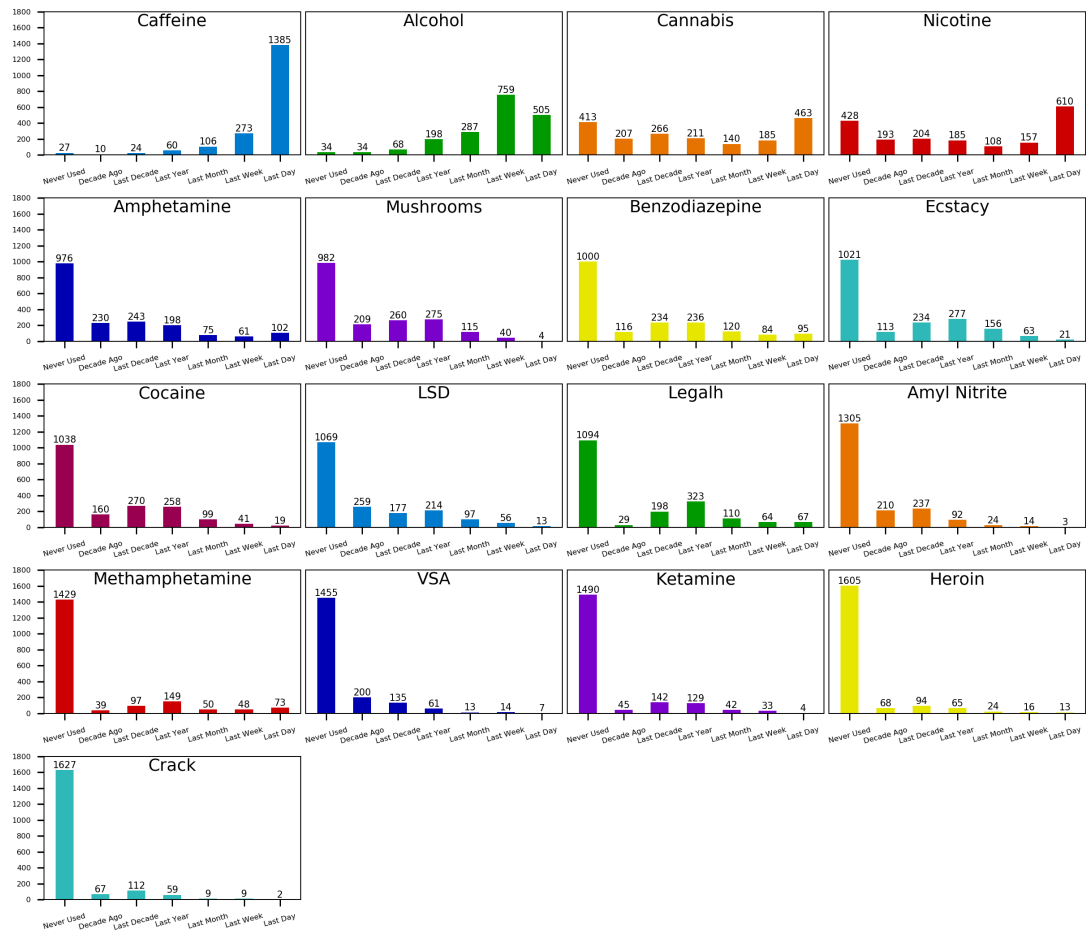
4. Data Exploration

Figure 1: Drug Usage
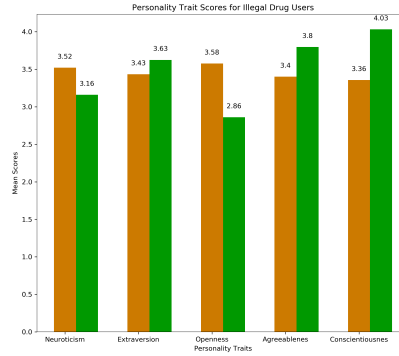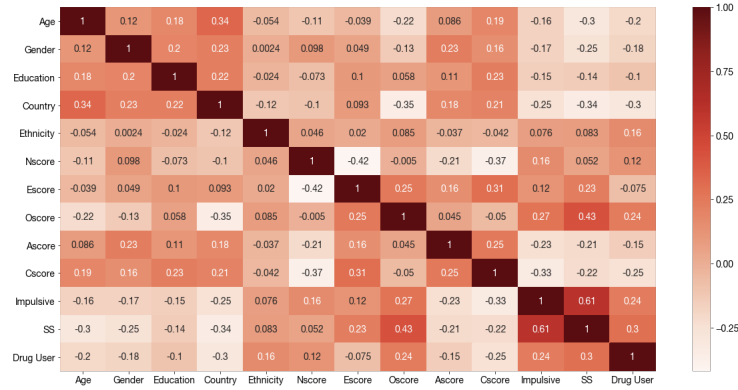
Figure 2: Drug Usage by Personality Trait

Figure 3: Heatmap of Correlation Matrix
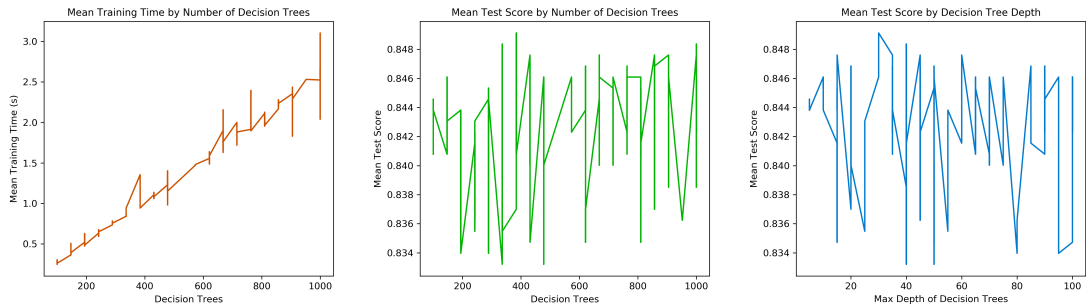

5. Data Modeling

Decision Tree Classifier

Random Forest Classifier

Feature Selection

Grid Search

Figure 4: Hyperparameter Tuning with Grid Search

Clustering

6. Results