

The Data

1885 respondents

7 personality features

18 drugs

Personality Traits

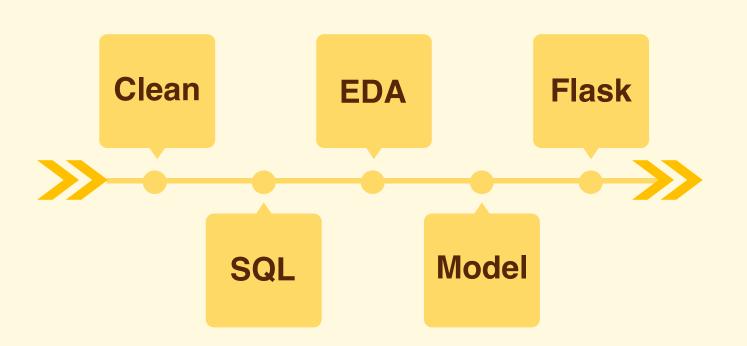
N	E	0	Α	C	I	SS
Neuroticism	Extraversion	Openness to Experience	Agreeable- ness	Conscientious- ness	Impulsiveness	Sensation Seeking

Assumptions

Only modelling usage in past month

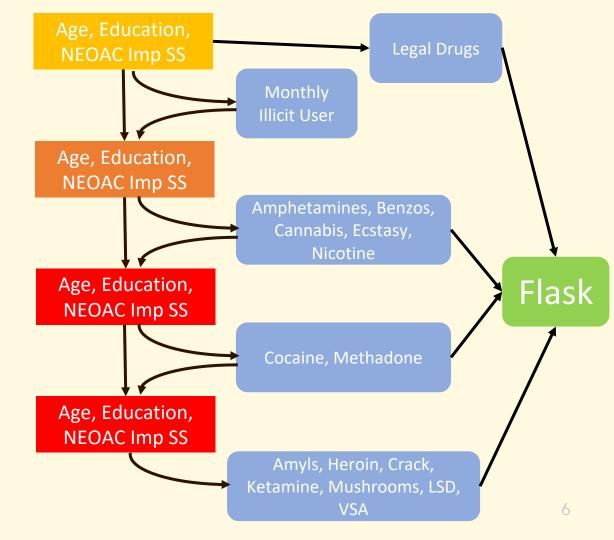
Only valid for white British and American people

Process

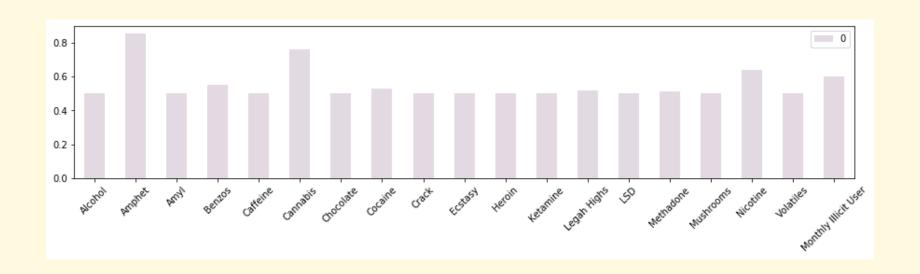


Model Network

- XGBoost (for accuracy and speed) optimized with RandomSearchCV, scored on ROC
- Four levels, each passing more data into features



ROC scores for each drug classifier



dry-stream-60533.herokuapp.com/

Check out the app

Future Work

- Ensemble methods like stacking
 - Larger variety of models
 - Change network architecture



Appendix

Correlations between features

High N = Low E

Neuroticism and Extraversion are inversely correlated

Low A = Low C

Low Agreeableness corresponds to low Conscientiousness

Extraversion and Conscientiousness are directly correlated

Credits

This is where you give credit to the ones who are part of this project.

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