

# Personality & Drug Use

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#### Introduction

- Who we are: Part of an international network of Drug information centers
- What we aim for: Prevention of drug abuse
- What we do: Research on drug abuse and risk factors

- Who you are: CEO of an international company
- What you aim for: Determination of high risk employees



## **Main question**

Are there specific **personality traits** and **demographic features** which make individuals to belong to the *high risk* group of drug abuse?



## Today's Agenda

- 1 Leading questions and basic terms
- 2 Analysis-Approach in short
- 3 Findings
- 4 Limitations & future work
- **5** Summary
- **6 Possible prevention methods**

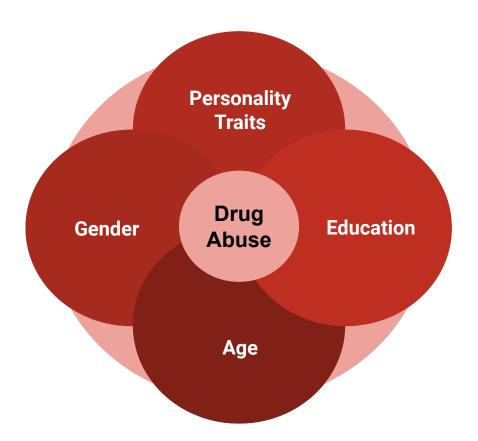




#### **Leading questions and basic terms**

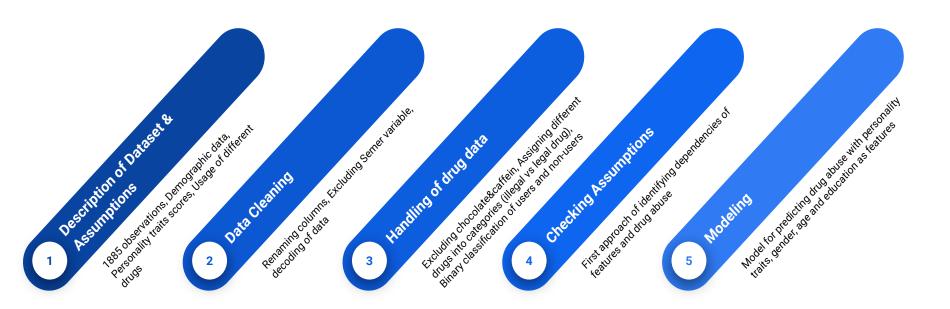
**Personality Traits** Neuroticism Openness Extraversion Impulsiveness Agreeableness Conscientiousness **Sensation Seeking** 

### **Leading questions and basic terms**



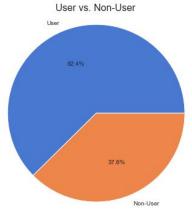


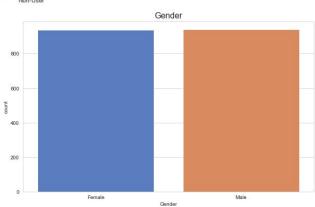
## **Analysis-Approach in short**

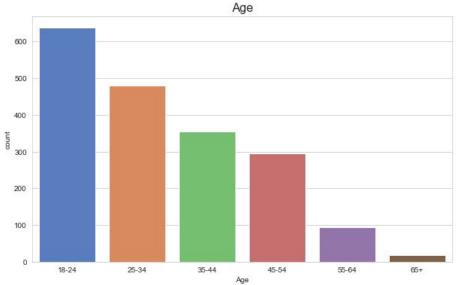




#### **Findings - The dataset**









#### Findings - Personality Traits and Illegal Drug abuse

- 0.8

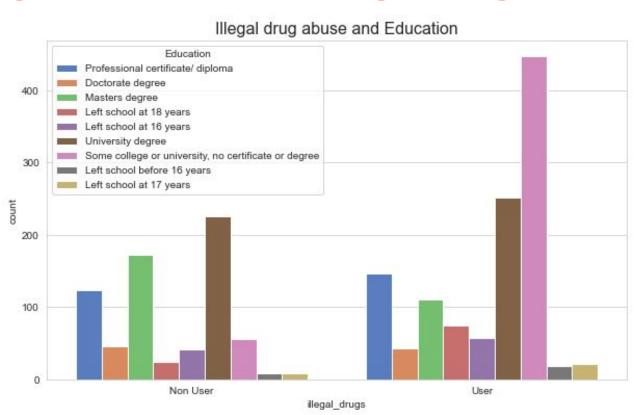
Correlations among Personality Traits & Drug Use

illegal_drugs	1.0	0.2	-0.1	0.4	-0.2	-0.3	0.3	0.4
Neuroticism	0.2	1.0	-0.4	0.0	-0.2	-0.4	0.2	0.1
Extraversion	-0.1	-0.4	1.0	0.2	0.2	0.3	0.1	0.2
Openness	0.4	0.0	0.2	1.0	0.0	-0.1	0.3	0.4
Agreeableness	-0.2	-0.2	0.2	0.0	1.0	0.2	-0.2	-0.2
Conscientiousness	-0.3	-0.4	0.3	-0.1	0.2	1.0	-0.3	-0.2
Impulsiveness	0.3	0.2	0.1	0.3	-0.2	-0.3	1.0	0.6
Sensation_Seeking	0.4	0.1	0.2	0.4	-0.2	-0.2	0.6	1.0
	llegal_drugs	Neuroticism	Extraversion	Openness	Agreeableness	scientiousness	mpulsiveness	sation_Seeking

Trait	corr	р
Neuroticism	0.172	0.000
Extraversion	-0.072	0.002
Openness	0.363	0.000
Agreeableness	-0.182	0.000
Conscientiousness	-0.305	0.000
Impulsiveness	0.319	0.000
Sensation_Seeking	0.437	0.000

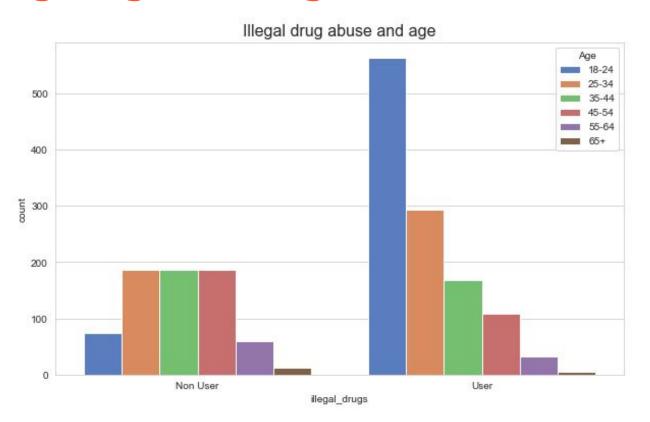


#### Findings - Education and Illegal Drug Abuse





#### **Findings - Age and Drug Abuse**

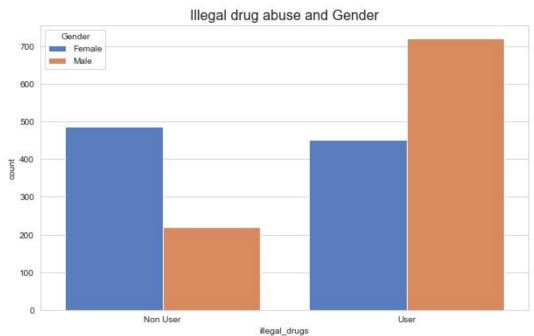




#### **Findings - Gender and Drug Abuse**

Gender differences in personality traits

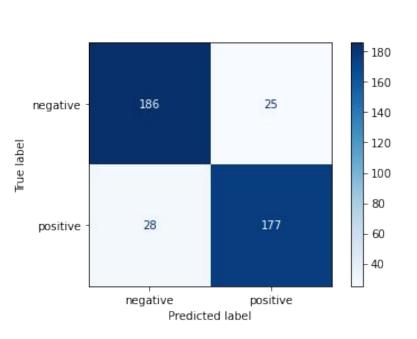
Trait	t	р
Impulsiveness	7.448	0.0
Openness	5.847	0.0
Sensation_Seeking	11.010	0.0
Conscientiousness	-8.033	0.0



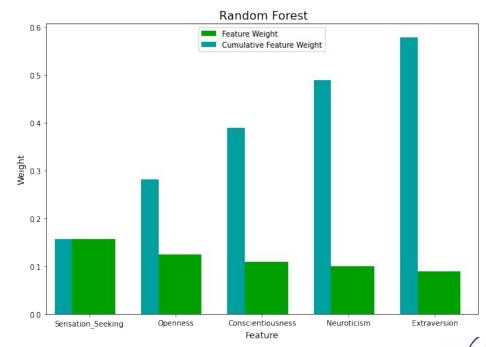
t-statistic = 13.309 p-value = 0.0000



#### **Findings - Final model**



#### Normalized Weights for First Five Most Predictive Features



**Drug Information Center** 

#### **Limitations & future work**

Drug abuse is a high **complex** social and psychological problem

There are **many other factors** which play a role and are not covered in this model

Did not include ethnicity in order to prevent racism

High risk of **abuse** regarding the insight we offer

Only illegal drugs were included





## **Summary**

Males are more likely to use drugs in their lifetime

The younger a person, the higher the risk of drug use

Risk groups

**Education** is **not a protective** factor

Sensation Seeking, Openness, Conscientiousness, Neuroticism and Extraversion seem to be the **strongest factors** in the model



Possible preventions methods

Transparent talk about drugs

Promote open discussions

Involve your corporate health management

Offer and promote alternative activities in your company isports etc.



#### References

**Images** 

https://images.app.goo.gl/rhrg2jHPsY8sC5Vh9

https://images.app.goo.gl/9AkiywVKndvpdK2L7

https://images.app.goo.gl/z34GcsgwoaUBMbqc6

https://images.app.goo.gl/iMT9g8SEwhzXnRV58

https://github.com/kevintomas1995/Personality-and-Drug-use

