

# Analysis of Drug Consumption Dataset

## Team Members:

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- Rock David Adeline
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## Project Outline:

The primary objective of this data analytics project is to investigate the patterns of drug consumption among individuals and explore the potential relationships between personal traits/behaviour and drug usage. This analysis will utilize the Python library Pandas for data manipulation and Matplotlib for data visualization.

## Research Questions:

- Does having a higher level of education decrease the likelihood of drug consumption?
- What correlations exist between an individual's personality traits and their drug usage patterns.
- Can ethnicity or Country Residency predict the type of drugs and/or the frequency of drug use?

## Dataset:

The dataset contains a record of 1,855 participants recruited over a 12-month period, between March 2011 and March 2012.

For each participant 12 different attributes are known:

- 7 Personality Trait Measures including:
  - Revised NEO Personality Inventory (NEO-FFI-R), which assess an individual on five dimensions of personality: neuroticism, extraversion, openness to experience, agreeableness, and conscientiousness.
  - Impulsivity (BIS-11).
  - Sensation Seeking (ImpSS).
- Level of Education.
- Age.
- Gender.
- Country of Residence.
- Ethnicity.

In addition, participants were asked in the use of 18 different legal and illegal drug use.

Source: <https://www.kaggle.com/datasets/mexwell/drug-consumption-classification>

## Task Assignment

Task	Assigned to:
Data Cleaning	Daniel, David
Initial data analysis and statistical measures	Daniel
Plotting Statistical Results	Tammy
Results Analysis	David, Lisa
Preparing Power Point Slides	Lisa
Results Presentation	(all)