Relevant training course: Data Scientist

Level of difficulty: 5/10

Description of the project:
- **Classification of Social Milieus in Europe:**
  This project aims to classify social milieus across European countries using machine learning models applied to large-scale survey data. The goal is to identify latent social groupings based on values, lifestyles, socioeconomic status, and political orientations. Supervised and unsupervised learning techniques will be used to build robust, interpretable models. The analysis seeks to uncover cross-national patterns and culturally specific milieu structures. Results will contribute to a deeper understanding of social stratification and identity in contemporary Europe.

Resources to refer to:
- **Data:**
  European Social Survey
  https://ess.sikt.no/en/study/412db4fe-c77a-4e98-8ea4-6c19007f551b

- **Bibliography:**
  European Social Survey European Research Infrastructure (ESS ERIC). (2024). ESS11 integrated file, edition 2.0 [Data set]. Sikt - Norwegian Agency for Shared Services in Education and Research.
  https://doi.org/10.21338/ess11e02_0

Validation conditions for the project:
- an exploration, data visualization and data pre-processing **report** ;
- a modeling **report** ;
- a final **report** and associated **code.**