**Project Overview**

This project involves the analysis of a synthetic dataset (depression\_data.csv) containing various demographic, lifestyle, and health-related factors for a large sample of individuals. The primary goal is to explore potential correlations and patterns that may be associated with a history of mental illness, with a specific focus on depression risk factors.

The analysis will leverage data science and statistical techniques to:

* Perform Exploratory Data Analysis (EDA) to understand the distribution and characteristics of the data.
* Clean and preprocess the data for machine learning models.
* Investigate relationships between variables (e.g., income, physical activity, sleep patterns) and the target variable (History of Mental Illness).
* Potentially build predictive models to identify key factors that may contribute to the risk of depression.

This project is for educational and analytical purposes to demonstrate data handling and analysis skills.