**Exercise Announcement**: *Impact of Screen Time on Mental Health*

Explore the relationship between screen time and mental health. Your goal is to understand the structure of the dataset, perform analysis, build predictive models, and interpret the results. You need treat the **mental\_health\_score** either as a **continuous variable (regression)** or convert it into a **binary classification** target:

*# Create a binary target based on the median of 'mental\_health\_score'*

median\_score = df['mental\_health\_score'].median()

df['mental\_health\_binary'] = (df['mental\_health\_score'] >= median\_score).astype(int).

Steps :

1. Load the Data
2. Analyze the Structure of the Data
3. Univariate Analysis
4. Multivariate Analysis
5. Feature Engineering
6. Modeling

Try multiple models (Linear Regression, Logistic Regression, Random Forest, KNN, SVM).

1. Hyperparameter Tuning
2. Results Interpretation

**Important Note for Students:**

**Evaluation will prioritize your Python code structure**, especially your ability to:

* Create and organize your solution using **classes and methods**.
* Write clean, reusable, and modular code.
* Work **independently without the use of any AI code assistant or agent**.
* Dead line : 10/05/2025 Before 5 Pm