■ Personal Productivity Tracker - Summary

■ Overview

This project tracks daily activities and productivity habits to uncover patterns in time usage, energy balance, and task efficiency. By analyzing raw productivity logs, the project highlights when and how productivity peaks and drops throughout the day.

■ Dataset

- Raw Data: Daily activity logs (uncleaned), including missing entries and inconsistent categories.
- Cleaned Data: Structured dataset with standardized categories (Work, Study, Exercise, Leisure, Sleep, etc.).

■■ Tools & Skills Used

- Python: pandas (cleaning, analysis), matplotlib (visuals)
- Excel: cleaning, pivot tables for verification
- Visualization: charts for time distribution, trends

■ Process

1. Data Cleaning – removed duplicates, filled missing hours, standardized categories.
2. EDA (Exploratory Analysis) – analyzed hours per activity, weekday vs weekend trends.
3. Visualization – bar charts & pie charts to show time distribution and productivity cycles.
4. Insights – identified optimal hours for work vs breaks.

■ Key Insights

- Productivity peaks during **morning hours (8–11 AM)**.
- **Weekends** show higher time spent on leisure and sleep.
- Work/study hours tend to drop after **8 PM**, showing a need for earlier scheduling.

■ Portfolio Value

- Demonstrates data wrangling, visualization, and insight generation.
- Shows ability to transform raw messy logs into structured insights.
- Represents real-life, self-collected data, proving end-to-end analysis skills.