# Fitbit EDA\_and\_DashBoard

## Overview

This GitHub repository houses the comprehensive code and data for a Fitbit tracking dashboard project. The project's journey begins with the meticulous cleaning and merging of individual CSV files using Google Colab. This initial step ensures that the data is prepared for the subsequent exploratory data analysis (EDA), conducted both theoretically and visually.

## Exploration and Analysis

The merged datasets offer a rich source of insights, paving the way for detailed exploratory data analysis. Theoretical examinations alongside visualizations bring to light patterns, trends, and correlations within the Fitbit tracking data. Individual profiles for daily, hourly, and minute-based activities are generated using Panda Profiles, providing a deeper understanding of user behaviors.

## Tableau Dashboard

The pinnacle of the project is the creation of a dynamic Tableau dashboard. This interactive dashboard encapsulates the essence of the Fitbit tracking data, making it accessible and user-friendly.

## Repository Structure

### Week 8 [Master Folder]

#### 01. Raw CSV

#### 02. Clean CSV

#### 03. Merged CSV

- Daily

- Hourly

- Minute

### Colab Files

- A. Data Manipulation

- B. Merging Process

- C. EDA Colab Files

### Colab Files

#### General Datasets

#### Daily Datasets

#### Hourly Datasets

#### Minute Datasets

- Daily Datasets Merge

- Hourly Datasets Merge

- Minute Datasets Merge

- Daily EDA

- Hourly EDA

- Minute EDA

### Panda Profiles

#### HTML Files

- Daily Activity

- Hourly Activity

- Minute Activity

## Glance Report

A glance report of the overall capstone project is available in PDF format in the repository.

This GitHub repository serves as a comprehensive hub for the Fitbit tracking project, providing transparency and accessibility to the project's code, data, and insights.