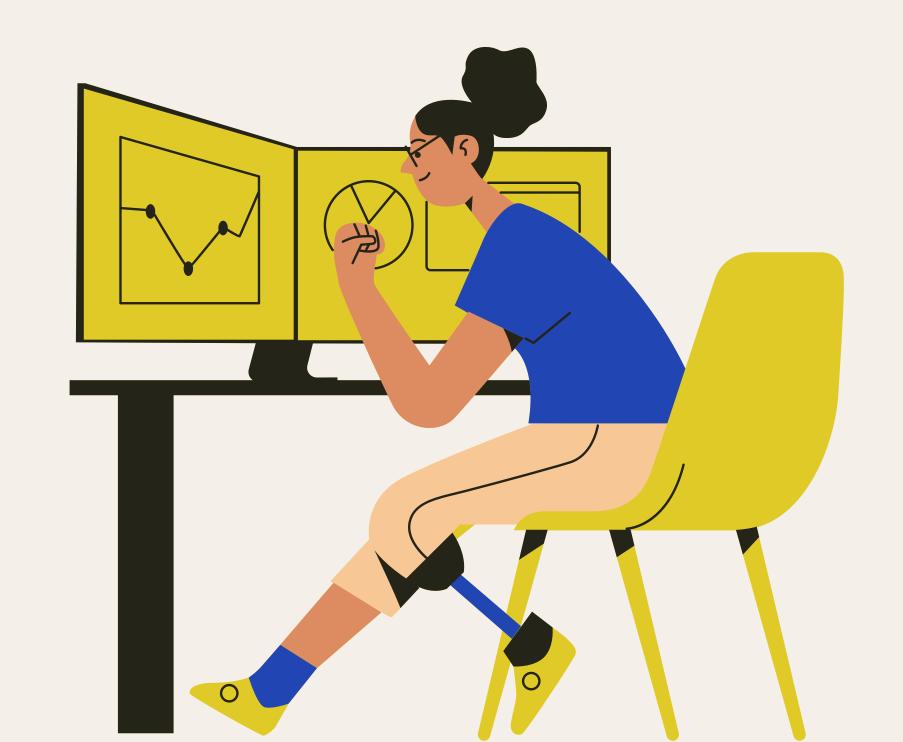
Data Analysis Project...

Impact of Remote Work on Mental Health



Prakamya Ajit

01 - Introduction...

02 - Why Does This Matter?

03 - Tools Used...

04 - Reports Generated...



Analyzing data enables informed decision-making

01 - Introduction

The rise of remote work offers flexibility and global collaboration, while onsite work fosters direct interaction and team bonding. Remote setups reduce commuting stress but risk isolation and blurred boundaries, whereas onsite offers structure and social engagement. Both require companies to balance productivity, mental health, and team cohesion.

Data analysis helps uncover valuable insights from complex datasets

01 - Introduction

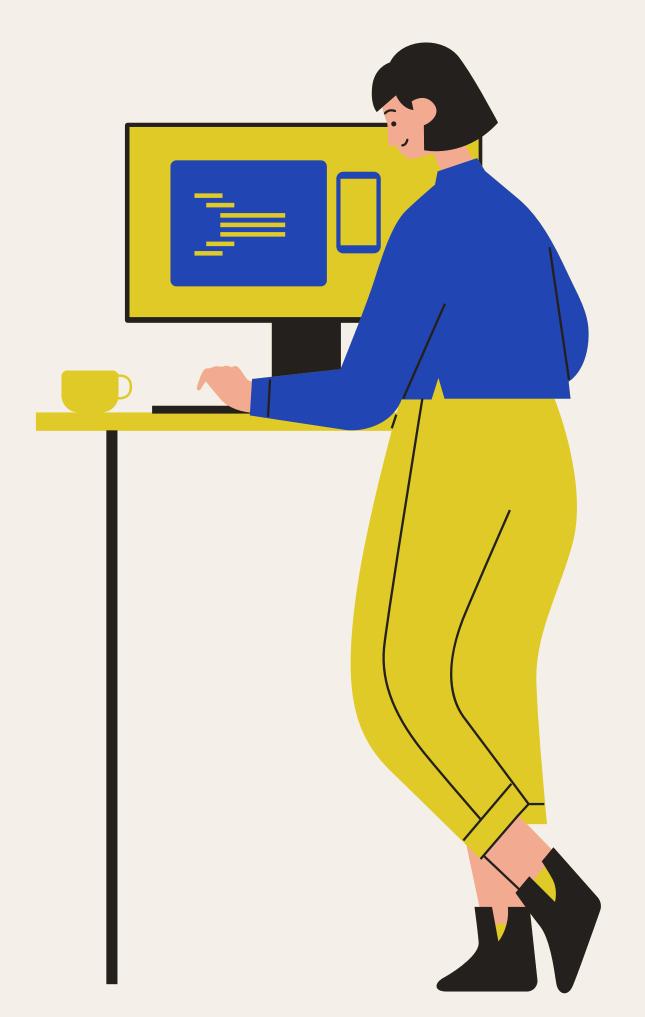
Statistical techniques play a crucial role in data analysis

I've always been the type to quietly observe patterns and make sense of them in my own time. Recently, I found myself curious about how remote work has impacted mental health. So, I dove into the Remote Work and Mental Health dataset on Kaggle(https://www.kaggle.com/datasets/waqi786/remote-work-and-mental-health). The results?...

02 - Why Does This Matter?

Statistical techniques play a crucial role in data analysis

Data suggests that remote work policies need to evolve beyond flexibility. To create sustainable work environments, organizations should focus on the mental well-being of their employees through structured, data-driven decisions. The dataset clearly shows that companies offering robust mental health support see more positive outcomes. This isn't just a "soft skill" focus—it's a strategic imperative backed by data.



03 - Tools Used...

I used:

- 1. Pandas to manipulate the dataset, efficiently cleaning and transforming the data.
- 2. NumPy powered some of the heavier lifting with numeric computations.
- 3. Matplotlib and Seaborn brought the insights to life through engaging visualizations.
- 4. PowerBI to make an interactive dashboard.
- 5. PostgreSQL to query the data.

Data wrangling, filtering, and visualizing provided an intimate look into the numbers that went beyond the surface, offering insights that plain observation wouldn't yield.



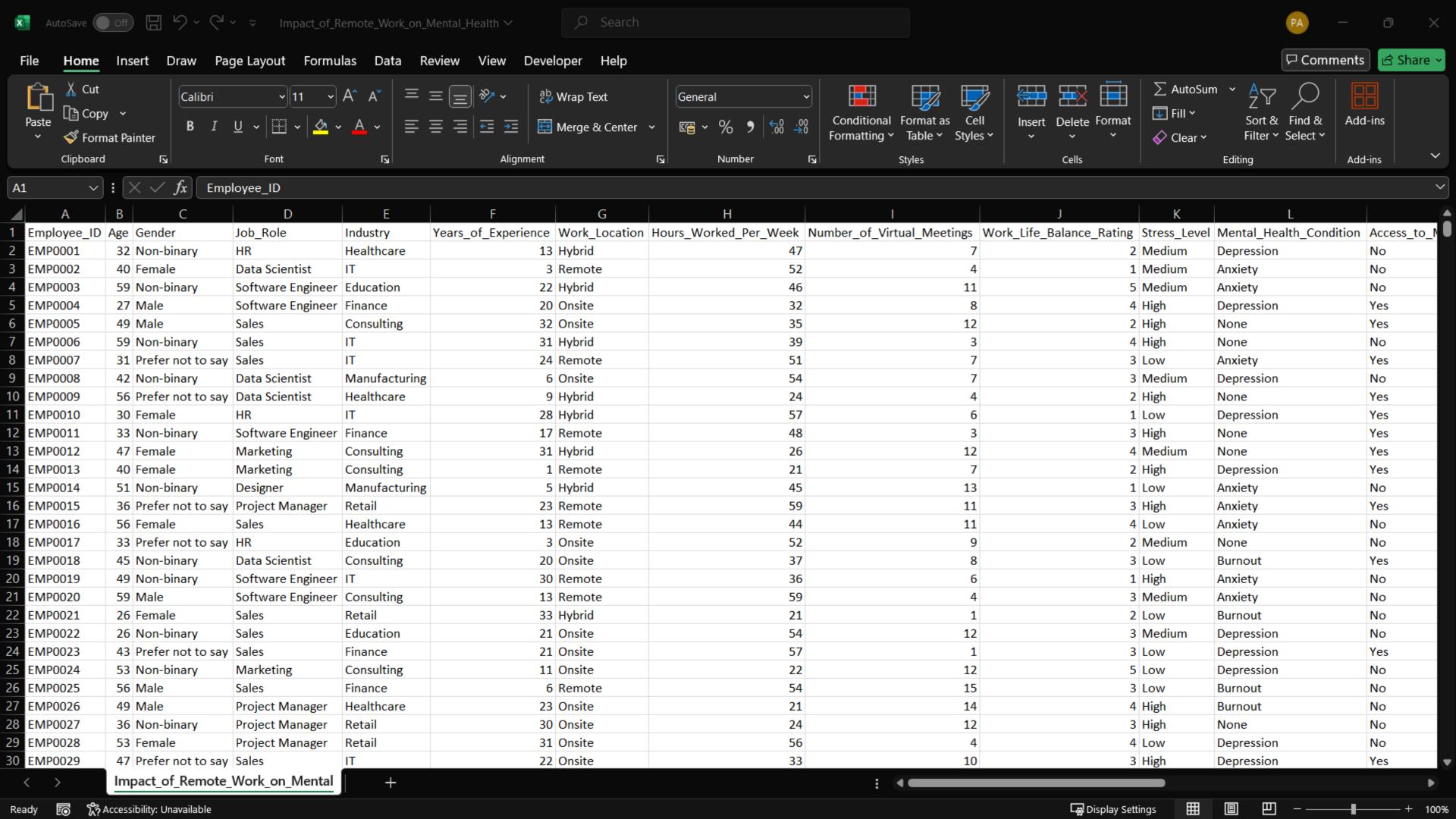


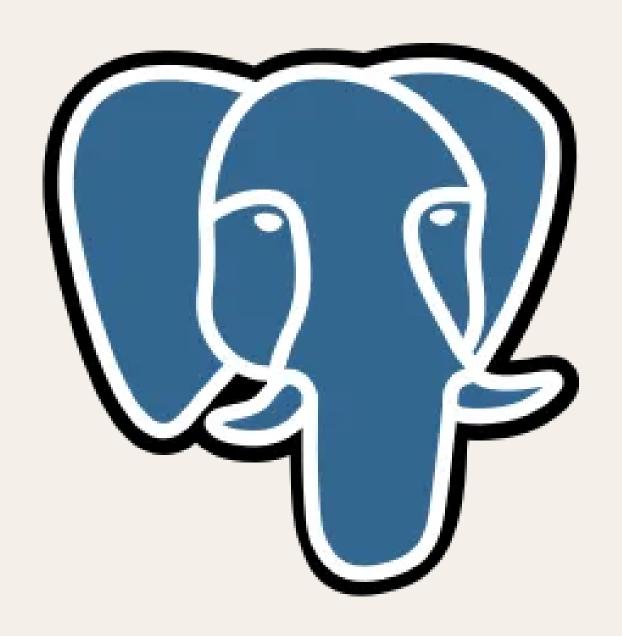
04 - Reports Generated...

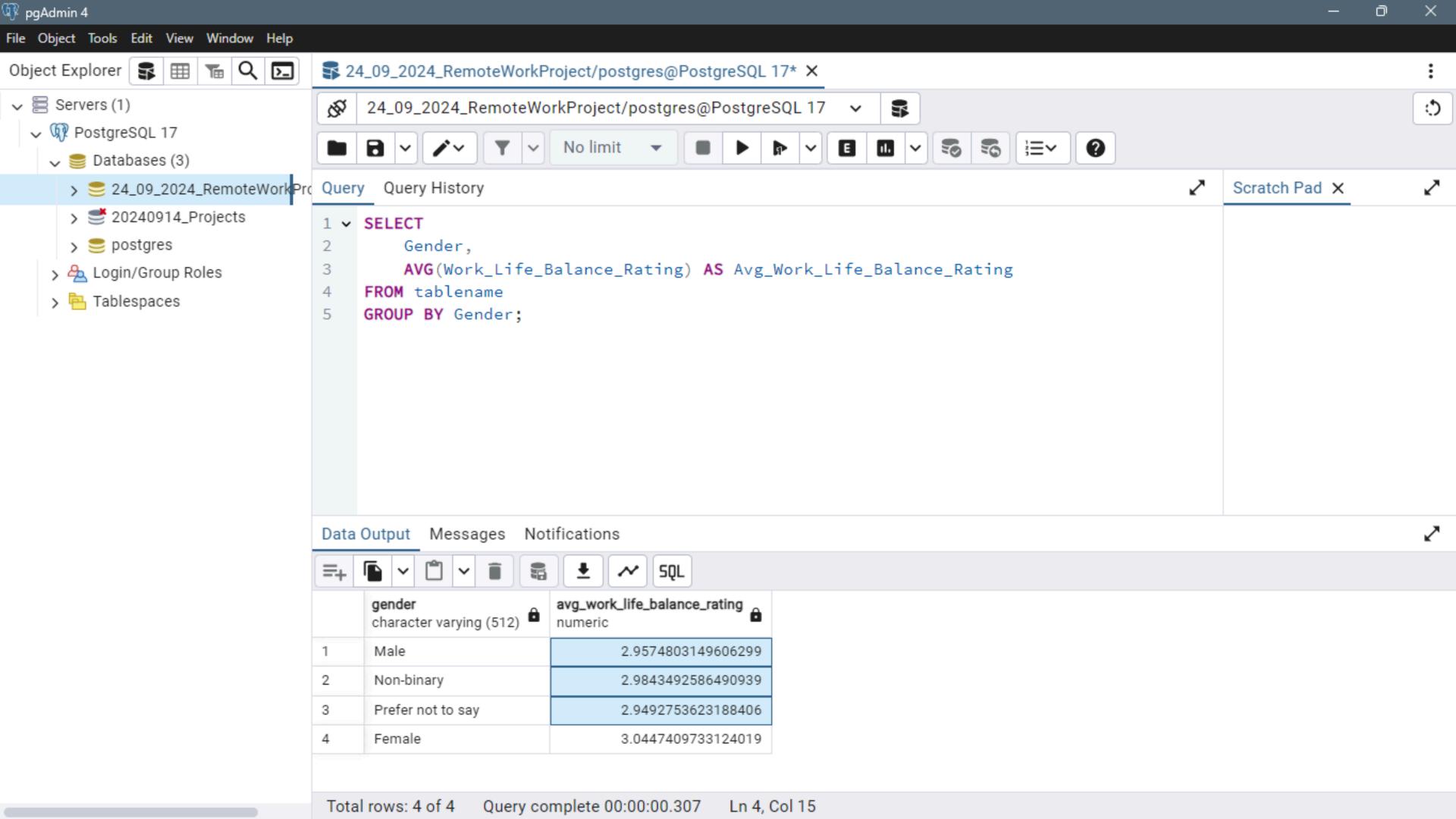


Following pages contain the snapshots of tools and reports generated...











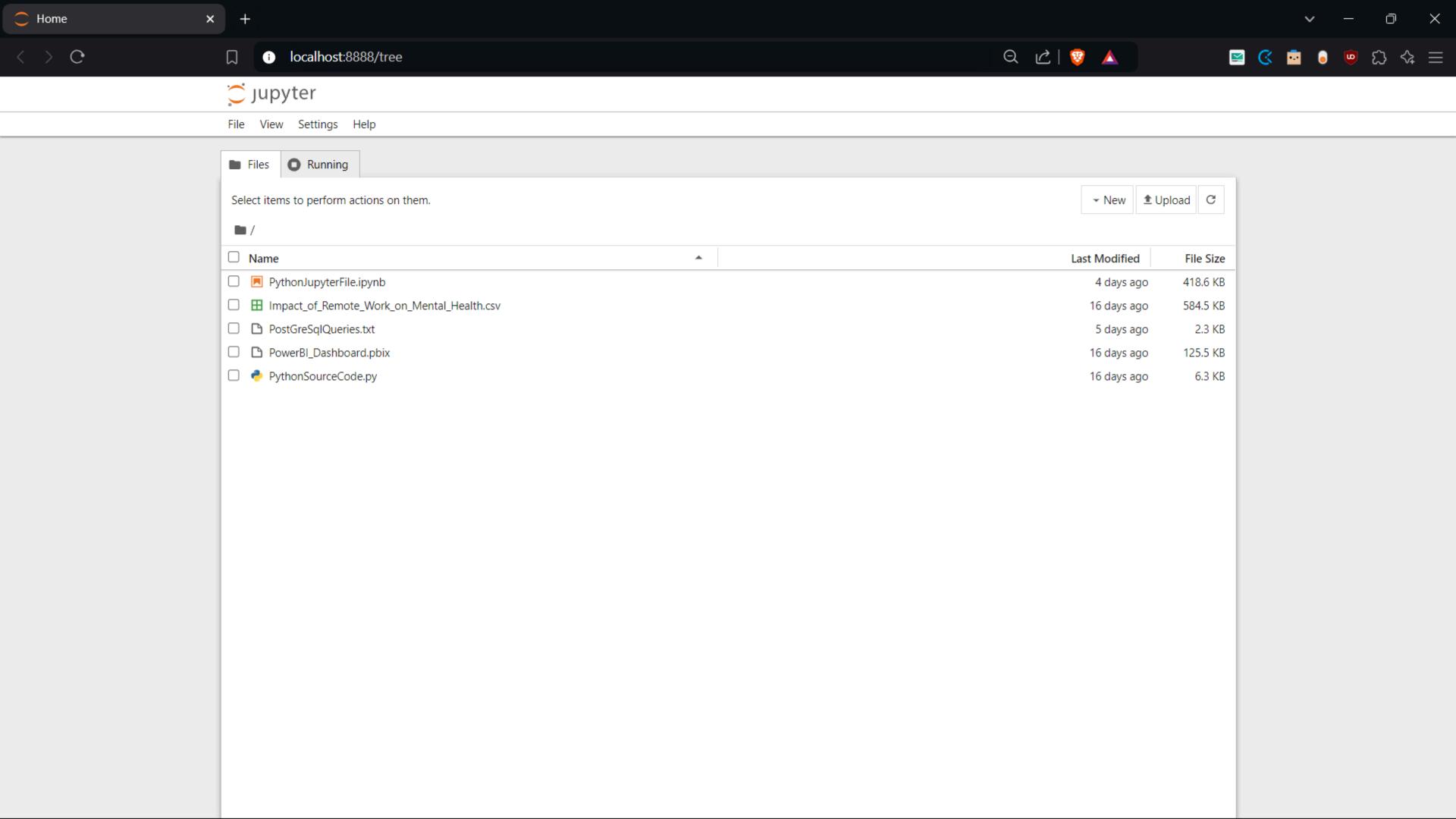


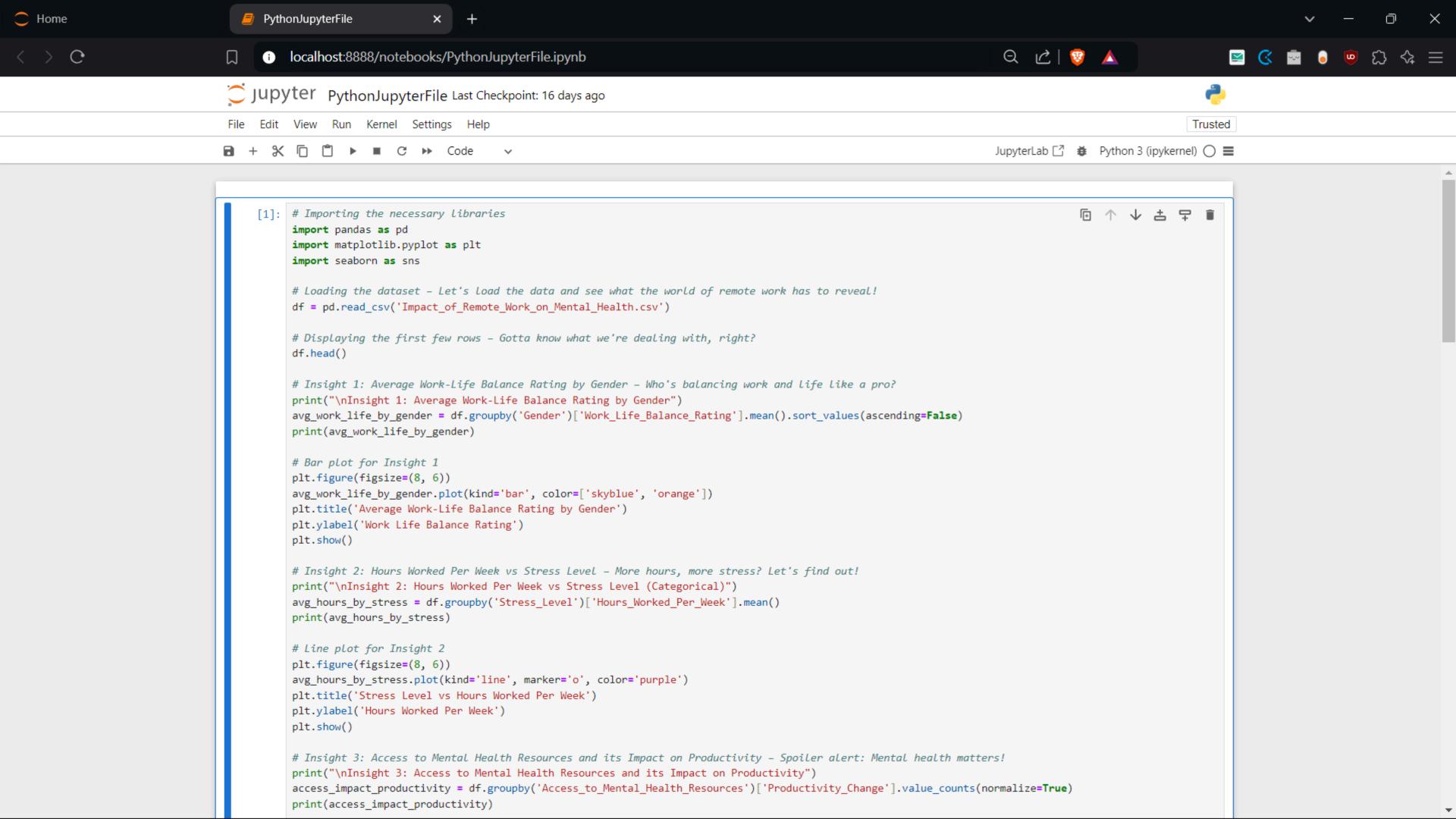


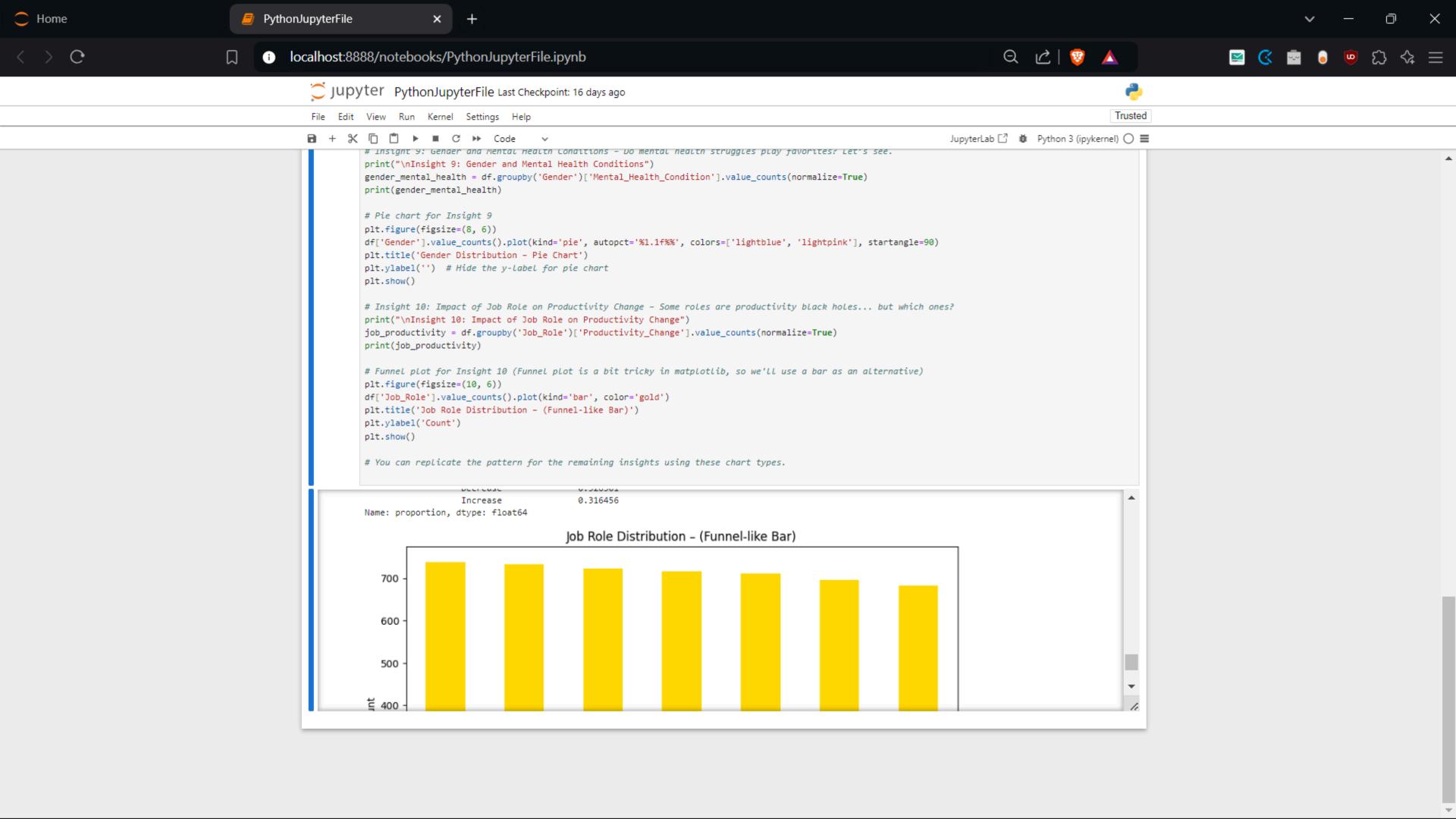
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             # Importing the necessary libraries
             import pandas as pd
             import matplotlib.pyplot as plt
مړه
             import seaborn as sns
             # Loading the dataset - Let's load the data and see what the world of remote work has to reveal!
             df = pd.read_csv('Impact_of_Remote_Work_on_Mental_Health.csv')
# Displaying the first few rows - Gotta know what we're dealing with, right?
             df.head()
        10
        11
Д
             # Insight 1: Average Work-Life Balance Rating by Gender - Who's balancing work and life like a pro?
        12
             print("\nInsight 1: Average Work-Life Balance Rating by Gender")
        13
             avg_work_life_by_gender = df.groupby('Gender')['Work_Life_Balance_Rating'].mean().sort_values(ascending=False)
        14
             print(avg_work_life_by_gender)
        15
        16
             # Bar plot for Insight 1
        17
             plt.figure(figsize=(8, 6))
        18
             avg_work_life_by_gender.plot(kind='bar', color=['skyblue', 'orange'])
        19
             plt.title('Average Work-Life Balance Rating by Gender')
        20
        21
             plt.ylabel('Work Life Balance Rating')
        22
             plt.show()
        23
             # Insight 2: Hours Worked Per Week vs Stress Level - More hours, more stress? Let's find out!
        24
        25
             print("\nInsight 2: Hours Worked Per Week vs Stress Level (Categorical)")
             avg hours by stress = df.groupby('Stress_Level')['Hours_Worked_Per_Week'].mean()
        26
        27
             print(avg_hours_by_stress)
        28
             # Line plot for Insight 2
        29
             plt.figure(figsize=(8, 6))
        30
        31
             avg_hours_by_stress.plot(kind='line', marker='o', color='purple')
             plt.title('Stress Level vs Hours Worked Per Week')
        32
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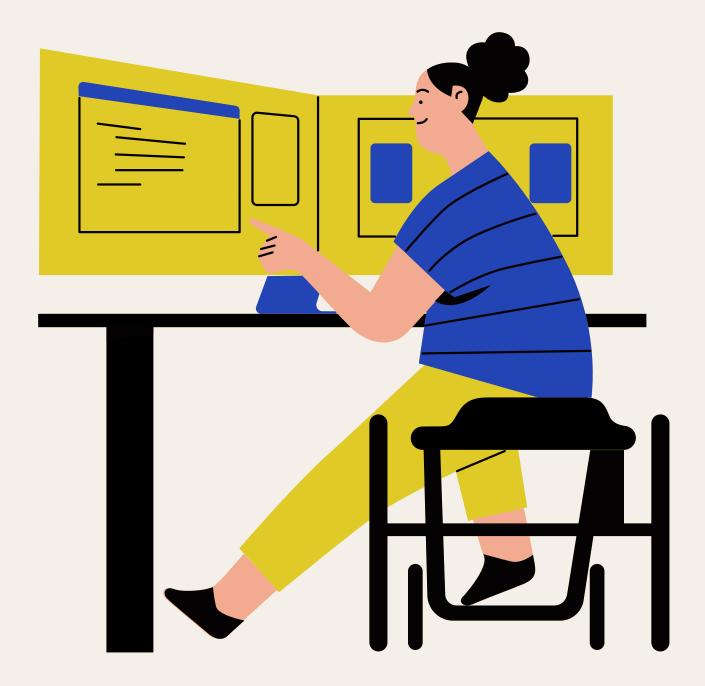






If you're looking for someone who enjoys translating complex datasets into actionable insights, I'm your person. Whether it's manipulating large datasets with Pandas and NumPy, visualizing trends with Matplotlib and Seaborn, setting up visually-appealing dashboards, or simply understanding the human element behind the numbers—I'm driven by curiosity to help solve realworld problems.





Data analysis allows for identifying trends and patterns within datasets.

Thanks

Project's Video Walkthrough:

https://youtu.be/BP9maWZaDKk

My Github:

• https://github.com/tempstuid/RemoteWork_AnAnalysis

My LinkedIn:

www.linkedin.com/in/prakamya-ajit

