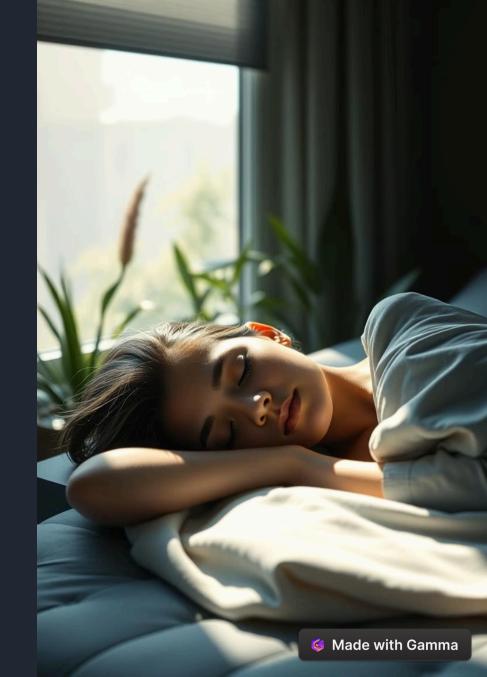
Sleep, Health, and Lifestyle Metrics Project



Overview

Project Scope

Examines the relationship between sleep quality, stress levels, and lifestyle factors such as BMI, physical activity, and occupation.

Data Exploration

Analyzes patterns and correlations to identify meaningful insights into how these factors affect health outcomes.



Team Members

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Key Insights

1 Gender and BMI

Higher percentage of females overweight than males. Males dominate the "Normal" BMI category, suggesting potential gender-based health differences.

2 Sleep Disorders

Overweight individuals more likely to suffer from insomnia and sleep apnea. Sleep disorders contribute to slightly elevated stress levels.

3 Stress and Occupation

Stress levels inversely correlated with sleep quality. Salesperson and Scientist have highest stress levels, while Teacher and Engineer have the lowest.

4 Heart Rate and BMI

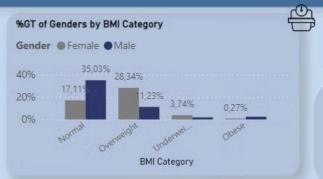
Individuals with Normal BMI tend to have low resting heart rates. Overweight individuals show increased resting heart rates, and obese individuals consistently exhibit high heart rates.





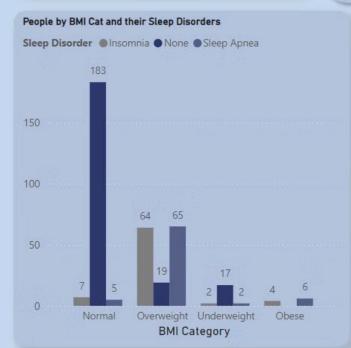
Sleep & Health Lifestyle Metrics

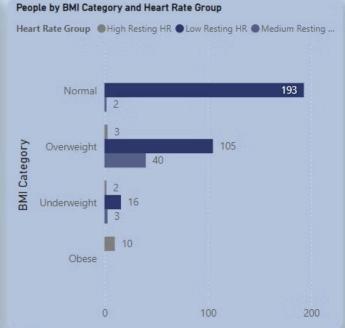












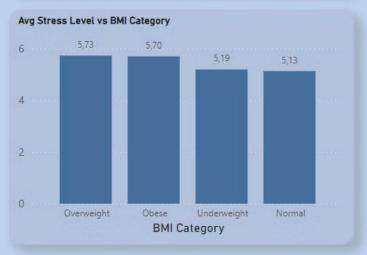




Sleep & Health Lifestyle Metrics

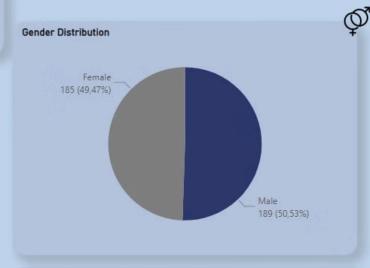


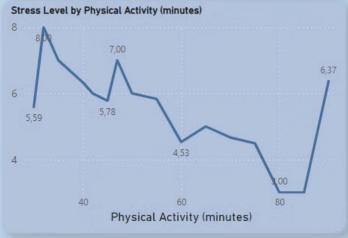












Project Tools



Power BI

Interactive dashboards, exploring BMI categories, sleep disorders, stress levels, and occupations.



Streamlit

Interactive and user-friendly platform showcasing real-time data visualizations and insights based on selected filters.



Features

Dashboard Highlights

- Gender-wise BMI and stress distribution.
- Interactive charts for physical activity, heart rate, and sleep disorders.
- Occupation-based stress and sleep quality metrics.

Streamlit Application

- Customizable filtering based on age, gender, and physical activity levels.
- Real-time updates to visualizations for user-specific needs.

Future Scope

1	Expand Dataset
2	Predictive Modeling
3	Enhance Streamlit App