DASHBOARD PROJECTS

DASHBOARD PROJECT 1 : Parkinsons's Disease Patterns

Purpose:
This dashboard was developed to support an IRB-approved research study at Saint Louis University focused on identifying patterns in Parkinson's disease progression. It helps visualize motor and cognitive performance differences between PD patients and control groups. The main objective is to uncover trends related to symptom severity, gender distribution, disease duration, and discordance, allowing researchers and clinicians to make more informed decisions based on patient data.

What It Shows:

- **Average Clinical Scores**: Displays key clinical metrics including tremor score (0.4) and PIGD score (0.38) for the Parkinson's cohort.
- **Patient Distribution**: A donut chart shows the percentage of participants in the PD group (79.2%) vs. control (20.8%).
- **Gender Breakdown**: Visual representation of the number of male and female participants in each group.
- **Disease Duration**: A comparative bar chart highlights differences in diagnosis length between PD and control subjects.
- The dashboard also includes tabs for deeper analysis — including **demographics**, **dual-task performance**, **disease severity**, and **clinical discordance**.

Tools Used:
SQL, Python, R, Looker Studio, Power BI, Excel

The dashboard was designed with accessibility in mind — using clean, intuitive visuals so both clinical researchers and non-technical users can easily navigate and interpret the findings.

LINK FOR DASHBOARD

DASHBOARD PROJECT 2 – Business Performance Metrics

This interactive Looker Studio dashboard presents a comprehensive visualization of business metrics, enabling data-driven insights and performance tracking. The dashboard is segmented into multiple charts and filters, offering users the ability to drill down by dimensions such as time, category, region, and performance indicators.

Key highlights of the dashboard:
• **Dynamic Filters**: Users can apply date ranges, categorical filters, and custom metrics for tailored analysis.

• **Trend Analysis**: Line and bar charts track temporal changes, highlighting patterns, growth, or anomalies.
• **Summary KPIs**: Top metric cards show totals, averages, and changes, aiding high-level decision-making.
• **Geographical Visualization**: Region-based charts and maps offer spatial analysis.
• **Responsive Design**: Built for clarity and usability across devices and stakeholder types.

Tools Used: Looker Studio, Google Sheets, SQL, Excel
View Dashboard