Project Name: Diabetes Risk Analysis – Excel Dashboard

Repository Overview

This project focuses on analyzing **diabetes risk factors** using **Excel-based data analytics**. The interactive **dashboard** provides insights into how glucose levels, BMI, insulin, age, and blood pressure impact diabetes prevalence.

Features

✓ **Interactive Excel Dashboard** with dynamic KPIs & charts
✓ **Pivot Tables & Slicers** for data filtering
✓ **Data-driven insights** on diabetes risk factors
✓ **Clear visual trends** using **charts & conditional formatting**

Dashboard Visualizations

Key Performance Indicators (KPIs):

1). **Total Patients Analyzed**
2). **Average Glucose for Diabetic Patients**
3). **Average BMI for Diabetic Patients**
4). **Average Age for Diabetic Patients**

Charts & Trends:

1). **Glucose vs. Diabetes Trend**
2). **Diabetes vs. Age Group**
3). **Insulin vs. Diabetes Outcome**
4). **BMI vs. Diabetes Outcome**
5). **Blood Pressure vs. Diabetes Outcome**
6). **Diabetes Outcome Trend**

Tools & Techniques Used

1). **Microsoft Excel** – Data cleaning, analysis, and visualization
2). **Pivot Tables & Pivot Charts** – Dynamic data grouping
3). **Slicers & Filters** – Interactive dashboard experience
4). **Conditional Formatting** – Highlighting key trends

Impact & Key Takeaways

a). Helps healthcare professionals & researchers **analyze diabetes risk factors**
b). **Identifies key correlations** between health indicators and diabetes prevalence
c). Demonstrates **Excel's capability** as a powerful analytics tool

Future Enhancements

1). Automate data updates with Power Query

2). Expand dataset for more detailed analysis

3). Build predictive models for diabetes risk scoring