

# NEXT GEN EMPLOYABILITY PROGRAM

## CREATING A FUTURE-READY WORKFORCE

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## CAPSTONE PROJECT SHOWCASE

Project Title  
**Health Care Data Driven Decisions using  
Power BI**

Abstract | Problem Statement | Project Overview | Proposed Solution |  
Technology Used | Modelling & Results | Conclusion | Q&A

## Abstract

1

Firstly, Import and pre-processing of datasets.

2

Learned to use DAX Functions.

3

Visualize the Dataset.

4

By utilizing Power BI, healthcare organizations can improve decision-making, patient outcomes, and operational efficiency.

## Problem Statement

- **Data Fragmentation:** How can healthcare organizations integrate fragmented data from various systems and departments for comprehensive analysis?
- **Limited Data Accessibility:** What strategies can be implemented to improve accessibility to healthcare data for informed decision-making?
- **Suboptimal Patient Outcomes:** What measures can be taken to address longer hospital stays and increased readmission rates?
- **Lack of Predictive Analytics:** How can predictive analytics anticipate future healthcare trends?
- **Limited Operational Visibility:** What methods enhance operational efficiency through data analysis in healthcare?



## Project Overview

- **Data Collection, Data Cleaning and Data Pre-Processing**
- **Using DAX Expressions**
- **Visualizations(Cards, Slicers, Charts)**
- **Formatting of Report**
- **Testing**
- **Storytelling**



## Proposed Solution

- **Data Fragmentation:** Implement data integration pipelines within Power BI to consolidate data from disparate systems and departments, creating unified datasets for comprehensive analysis.
- **Limited Data Accessibility:** Develop user-friendly dashboards and reports within Power BI to provide healthcare professionals with easy access to critical data, enabling informed decision-making without the need for complex data retrieval processes.
- **Suboptimal Patient Outcomes:** Create performance dashboards within Power BI to monitor key patient care metrics in real-time, enabling healthcare providers to identify trends, intervene proactively, and improve patient outcomes.
- **Lack of Predictive Analytics:** Develop predictive analytics models within Power BI using historical healthcare data to forecast patient trends, disease outbreaks, and resource demands, empowering proactive decision-making and planning.
- **Limited Operational Visibility:** Create operational dashboards within Power BI to visualize key performance indicators, such as patient wait times, bed utilization rates, and staffing levels, enabling healthcare administrators to identify inefficiencies and streamline operations.

## Technology used

- **SPREADSHEETS**

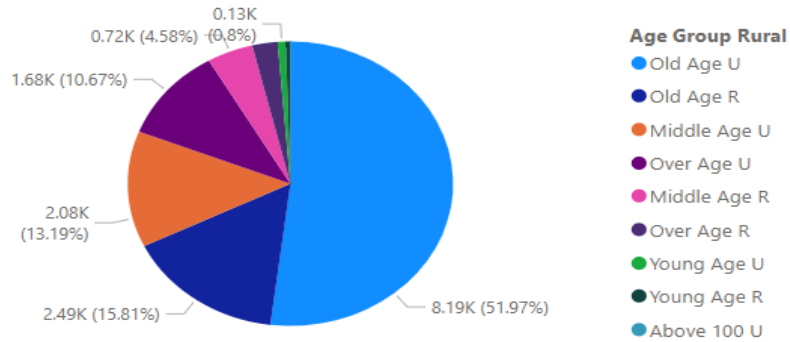
*Format of Datasets(.xls)*

- **POWER BI**

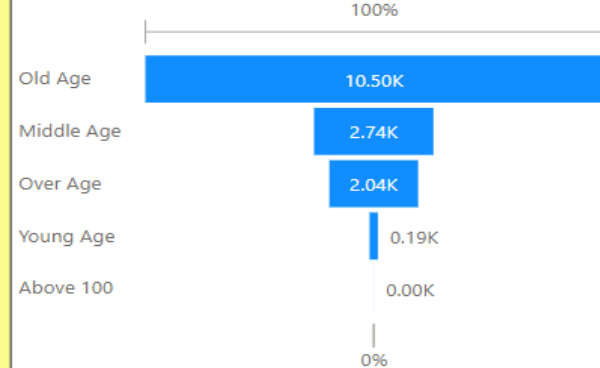
*For Visualizing Dataset and creating Dynamic Dashboard*

## Modelling & Result

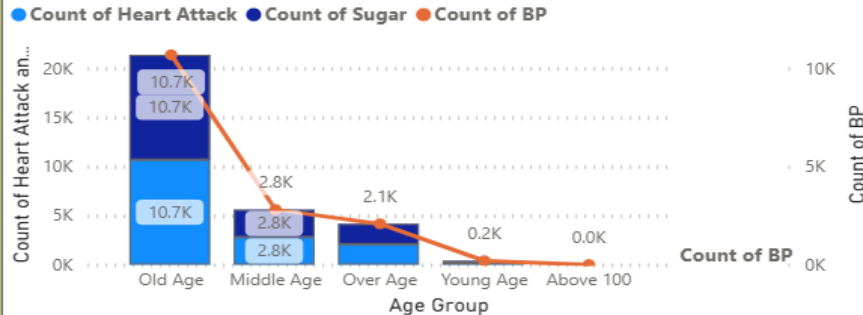
Count of Persons by Age Group and Rural



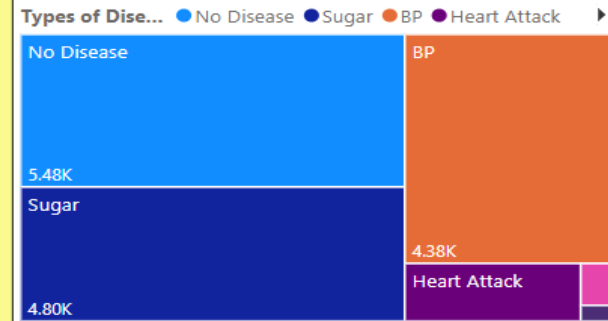
Count of Platelets by Age Group



Count of Heart Attack, Count of Sugar, Count of BP and First GENDER by Age Group

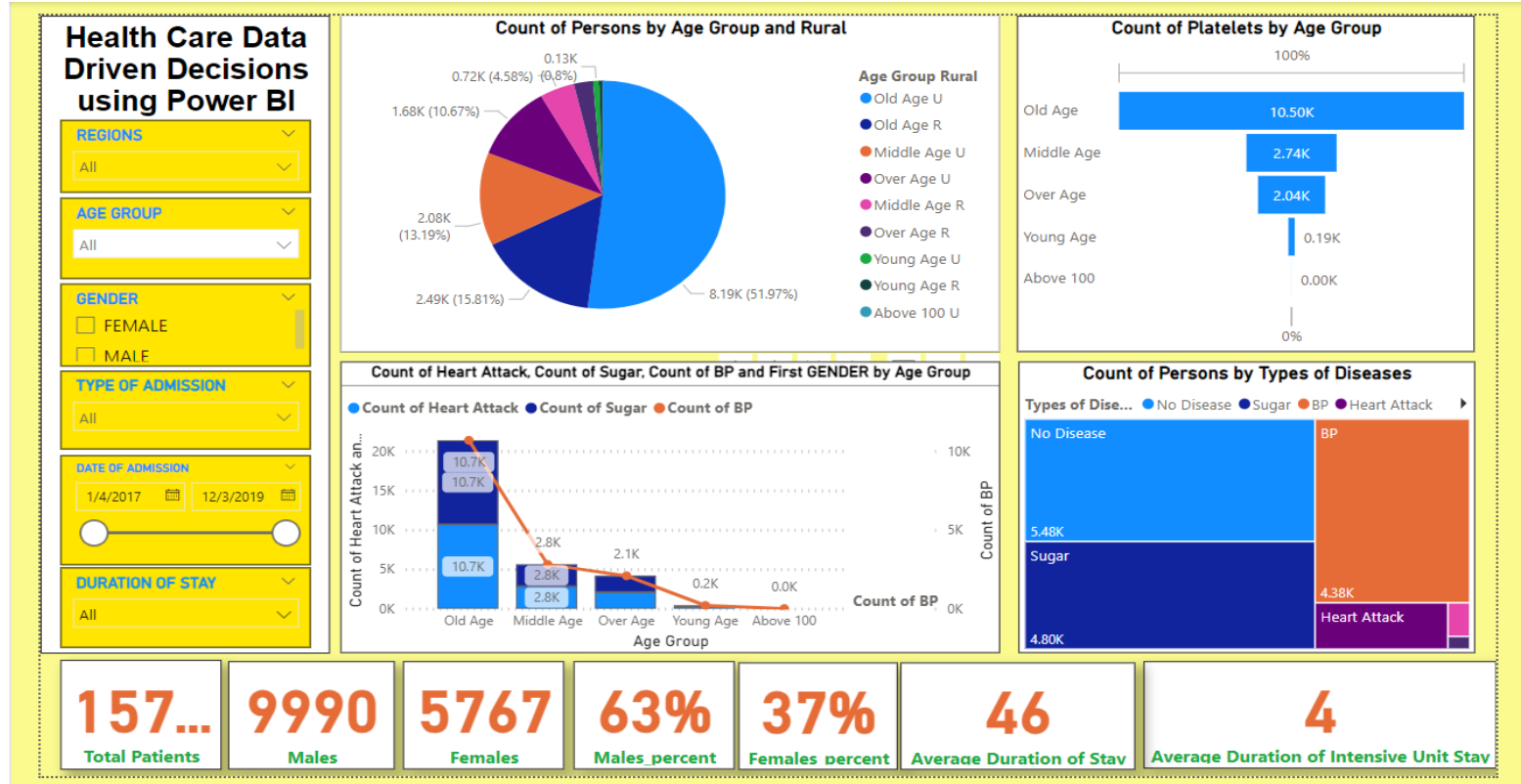


Count of Persons by Types of Diseases

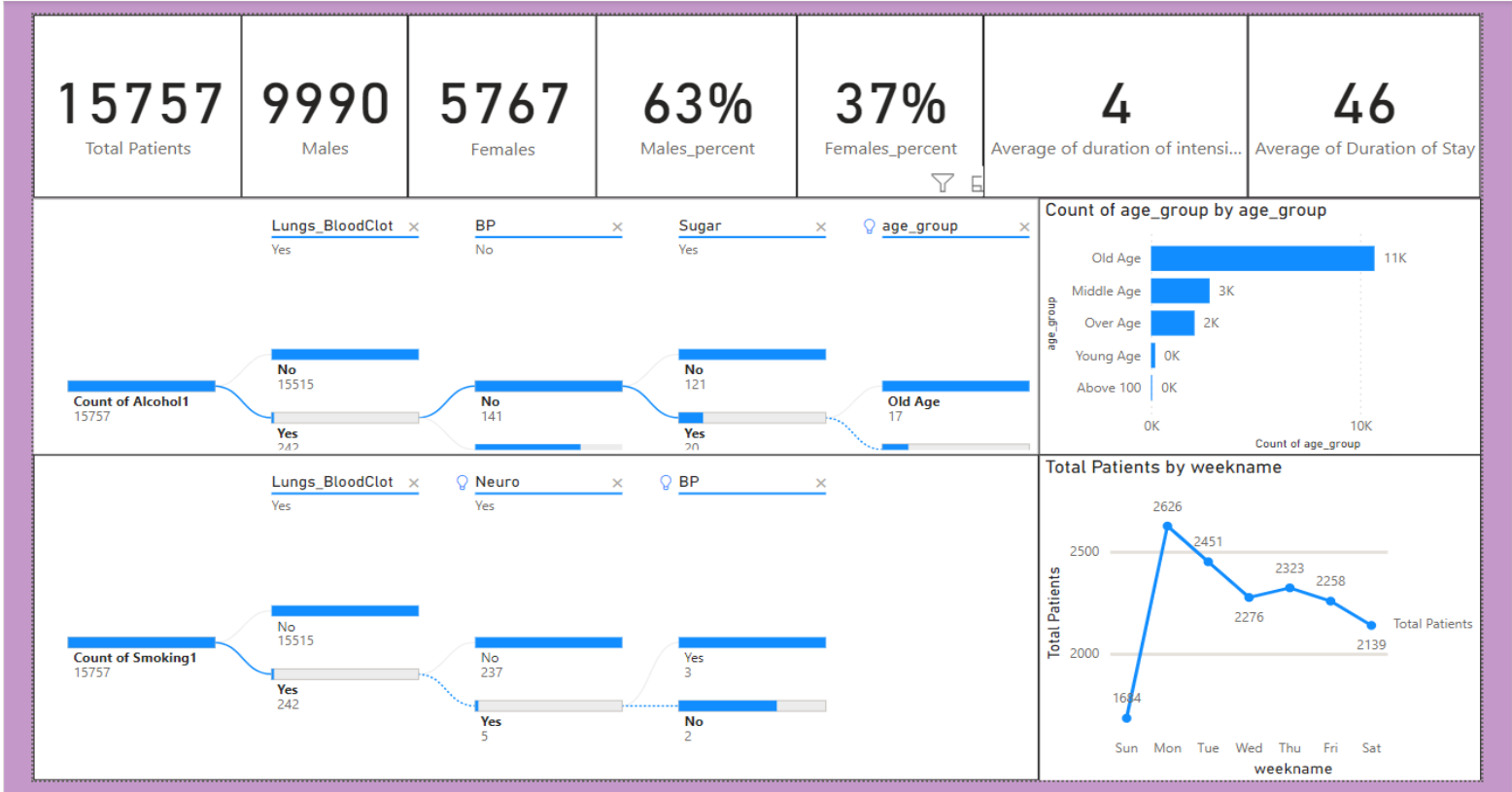




## Dashboard - 1

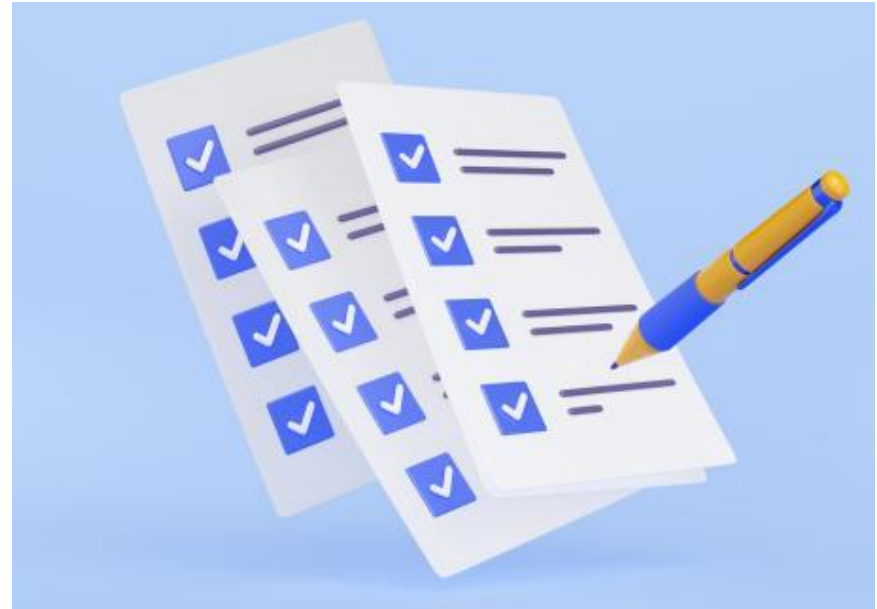


Dashboard - 2



## Conclusion

- By leveraging Power BI's interactive visualizations, stakeholders gained a deeper understanding of **healthcare processes** and **trends**, allowing for more informed decision-making.
- Power BI has provided valuable insights that have empowered healthcare organizations to **optimize resource allocation**, **enhance patient care outcomes**, and **improve operational efficiency**.





Thank you!

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