

# HEALTHCARE ORGANIZATION

### **CENTER FOR BUSINESS ANALYTICS** UNIVERSITY of WASHINGTON TACOMA Milgard School of Business

TEAM A5



Moulika Balaram moulikabalram@gmail.com

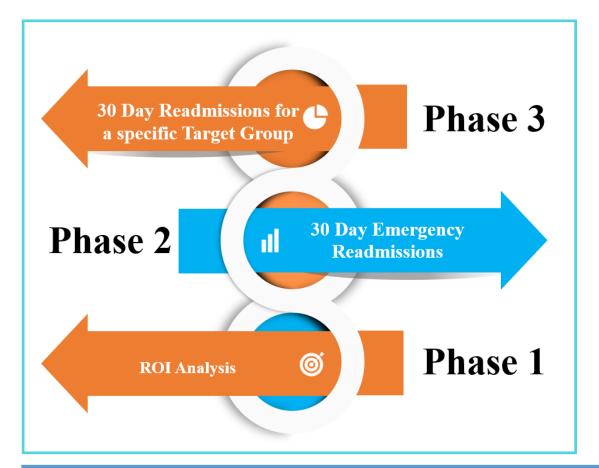


Richa Rajpal Das das.richa@outlook.com





Yashika Jain Sai Sindhura Poosarla Michael Turek sindhura2506@gmail.com turekmd@hotmail.com yjain2804@gmail.com

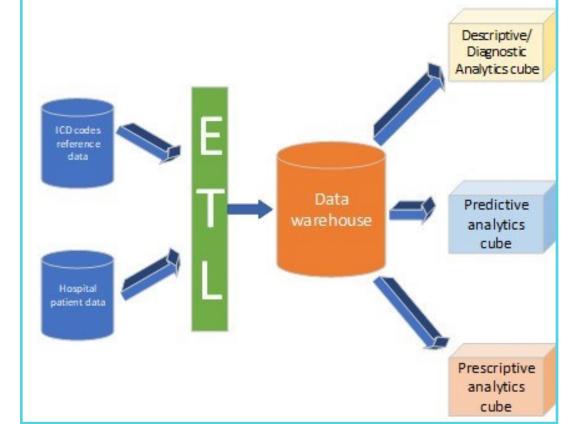


#### **Project Background:**

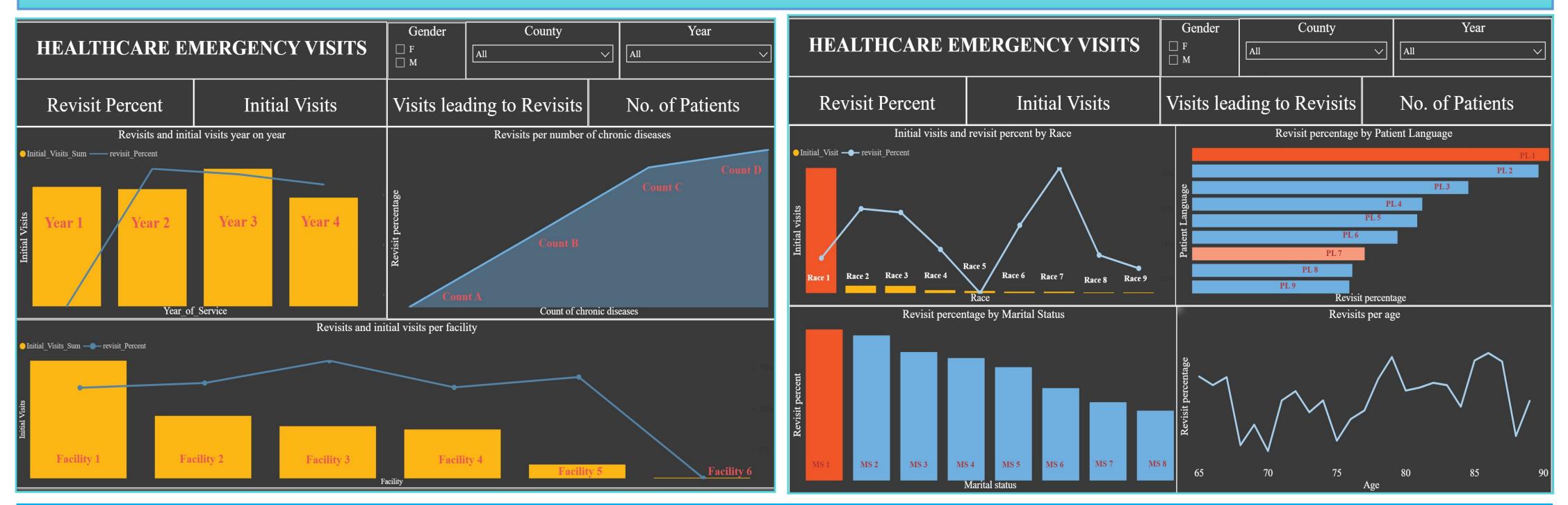
Reducing readmissions is an important metric of interest in the healthcare industry as it is an indicator of the quality of care provided. Reduction in readmissions will help the organizations to lower costs and improve patient satisfaction.

#### **Project Goal:**

The purpose of this project is to provide our healthcare provider insights and trends on their Emergency Readmission data and provide a machine learning solution that helps in predicting the probability of a potential visit transforming into a revisit and provide a digital solution in the form of a power app that can be applied by the clinical staff and utilized by doctors and parties of interest.



### **Descriptive/Diagnostic Analytics**



Insights: 1) As the count of chronic disease increases, the revisit percentage also increases. 2) Volume of visits for 'Facility 1' is the highest but the revisit percentage for 'Facility 3' is the highest. 3) Volume of visits are highest for Race 1 but revisits for Race 7 are the highest . 4) Highest revisit percentages for both the genders are seen for category 'MS 2' and immediate next 'MS 3'. 5) When the patient language is not English, the revisit percentage is observed to be high. 6) Highest revisits are observed for age groups above 75.

## **Predictive/Prescriptive Analytics**

