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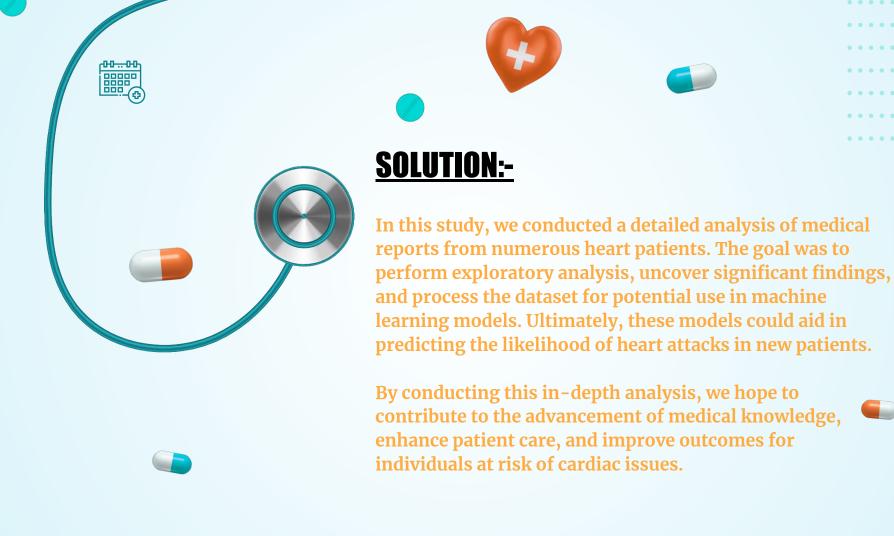
## **BACKGROUND & PROBLEM STATEMENT:-**



Heart attacks are a leading cause of premature mortality globally, with India witnessing over 3 million deaths annually due to heart attacks and strokes. Numerous factors can impact heart health and efficiency. By gaining valuable insights and taking necessary precautions, we can effectively manage the challenges and complications associated with cardiac health.









### **PROJECT SCOPE & METHODOLOGY:-**

- 1. The primary objective of this project is to analyze cardiac patient medical reports using Excel tools to derive insights, trends, and patterns that can aid in medical decision-making, patient management, and research.
- 2. Gather a comprehensive dataset of cardiac patient medical report.
- 3. Preprocess the data to handle missing values, outliers, and inconsistencies.
- 4. Utilize Excel tools such as PivotTables,
  PivotCharts, and advanced functions for data
  manipulation and analysis.
- Explore correlations between different variables such as age, gender, risk factors, and medical outcomes.



6. Develop risk stratification models to categorize patients based on their likelihood of developing cardiac events (e.g., heart attacks, strokes).

7. Visualize risk stratification results using Excel charts to facilitate interpretation and decision-making.

- 8. Employ Excel's comparative analysis tools to identify optimal treatment strategies for specific patient subpopulations.
- 9. Create visually appealing dashboards and reports using Excel's charting and formatting capabilities.
- 10. Present key findings, insights, and recommendations in a clear and concise manner.
- 11. Incorporate interactive elements (e.g., slicers, filters) into Excel dashboards to enable users to explore data dynamically.







#### **GOALS & KPIs:-**



The overarching goal of this project is to leverage Excel tools to analyze cardiac patient medical reports comprehensively.

#### KPIs:-

- Measure of heart attack
- **Cholestrol Level**
- **Resting blood pressure**
- Fasting blood sugar level
- Maximum heart rate achieved

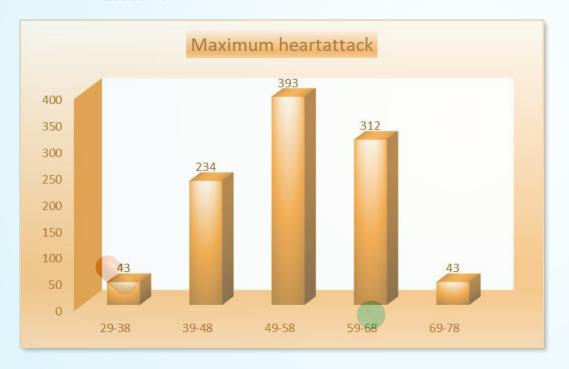






# **RECOMMENDED ANALYSIS:-**

1. What age group is most vulnerable or has a large number of patients with a higher risk of heart attack?





From this barchart we can see the age group between 49-58 has a large number of patients with a higher risk of heart attack.



#### 2. Are men mostly prone to heart attacks or women?



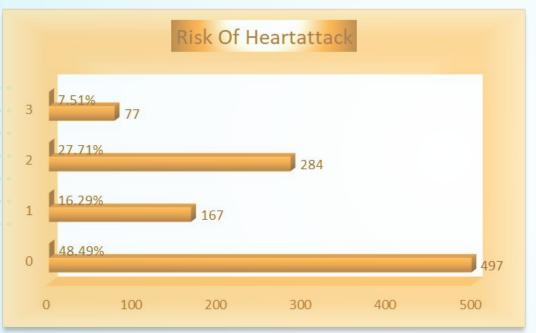


As compared to women,men are mostly prone to heart attacks which comprises 69.56%.





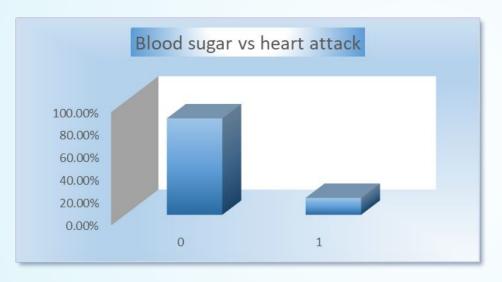
#### 3. What chest pain types pose a severe risk of a heart attack?



Out of the 4, typical angina poses a severe risk of heart attack.



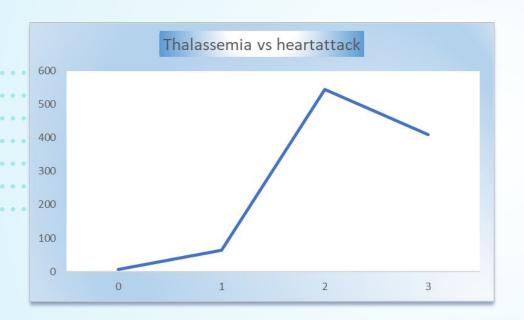
#### 4. How fasting blood sugar is related to heart attack?



Here fasting blood sugar is not directly related to heart attack as we can see 85.07% of people don't have fasting blood sugar yet experienced heart attack and 14.93% of people having fasting blood sugar don't have the risk of heart attack.



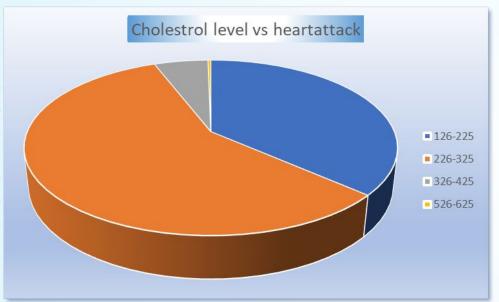
#### 5. What type of thalassemia severely leads to heart attack?



Category 2 type of thalassemis severely leads to heart attack



#### 6. Due to cholesterol, how many patients are at higher risk?



Here cholestrol level is not directly related to heart attack. As we can see people having higher cholestrol level they are less prone to heart attack as compared to people having lower cholestrol level.





## **CONCLUSION:-**

In summary, using Excel to analyze medical reports of heart patients gives us important information about how the disease works, how well treatments work, and how patients are doing. This helps doctors choose the best treatments for each patient, making care better. This project also helps researchers learn new things about heart problems and treatments. By working together and improving our methods over time, we can make heart care better, reduce the impact of heart diseases, and make life better for heart patients everywhere.





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