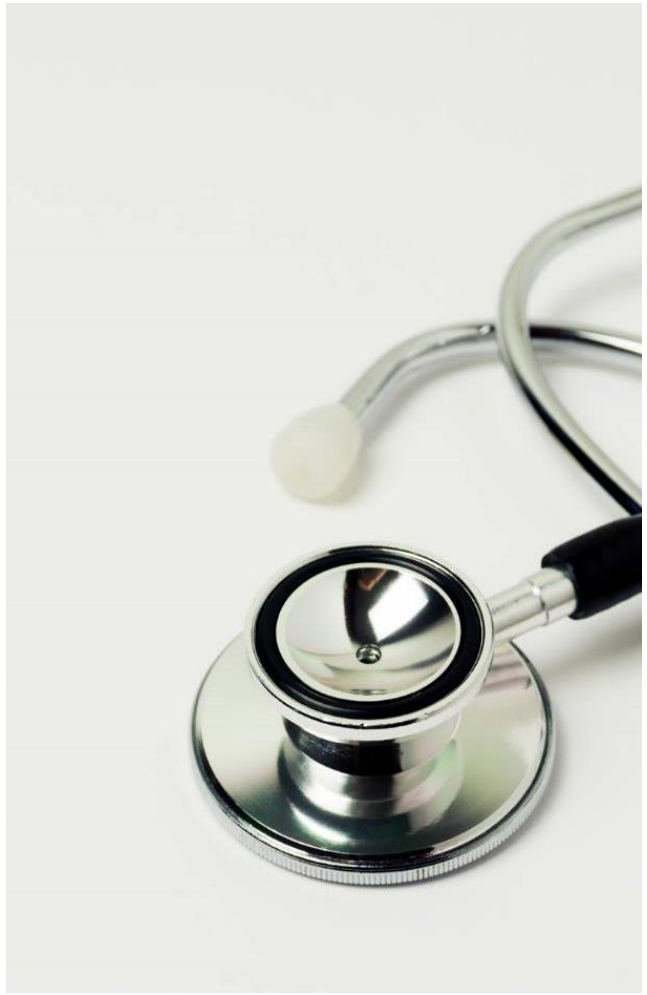
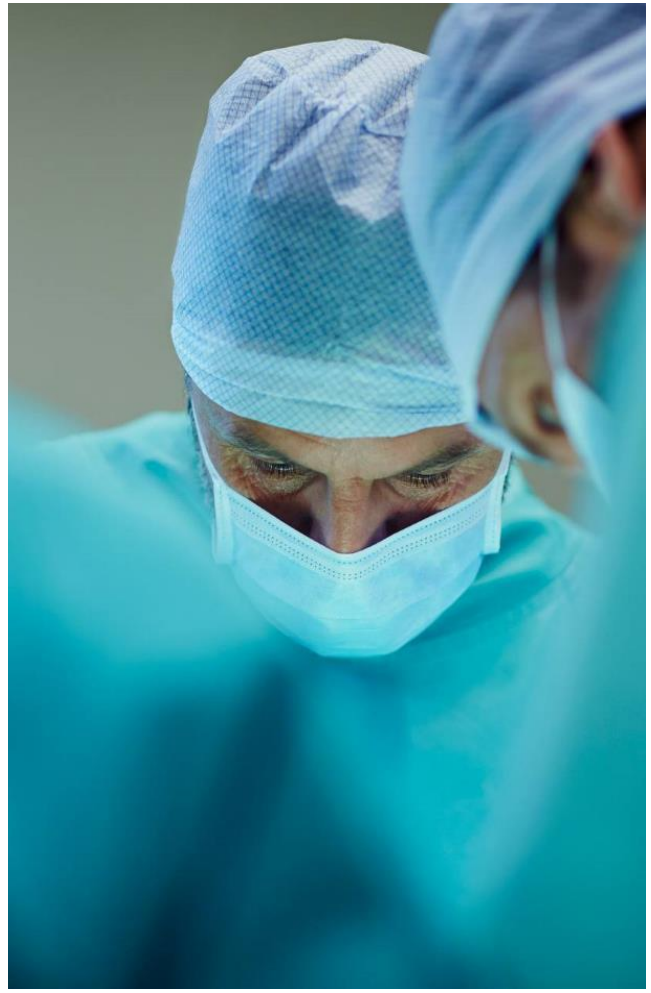
HEALTH CARE DATA ANALYSIS

Health care Data

AGENDA

- Overview of Healthcare Data
- Analysis Techniques & Tools
- Benefits & Future Outlook





INTRODUCTION

Healthcare data analysis is the process of looking at health information to help improve patient care and healthcare services. By studying data from patient records, treatments, and medical history, doctors and healthcare workers can find patterns, make better decisions, and provide more effective treatments. This helps in detecting diseases early, lowering costs, and managing resources better, leading to better care for patients.

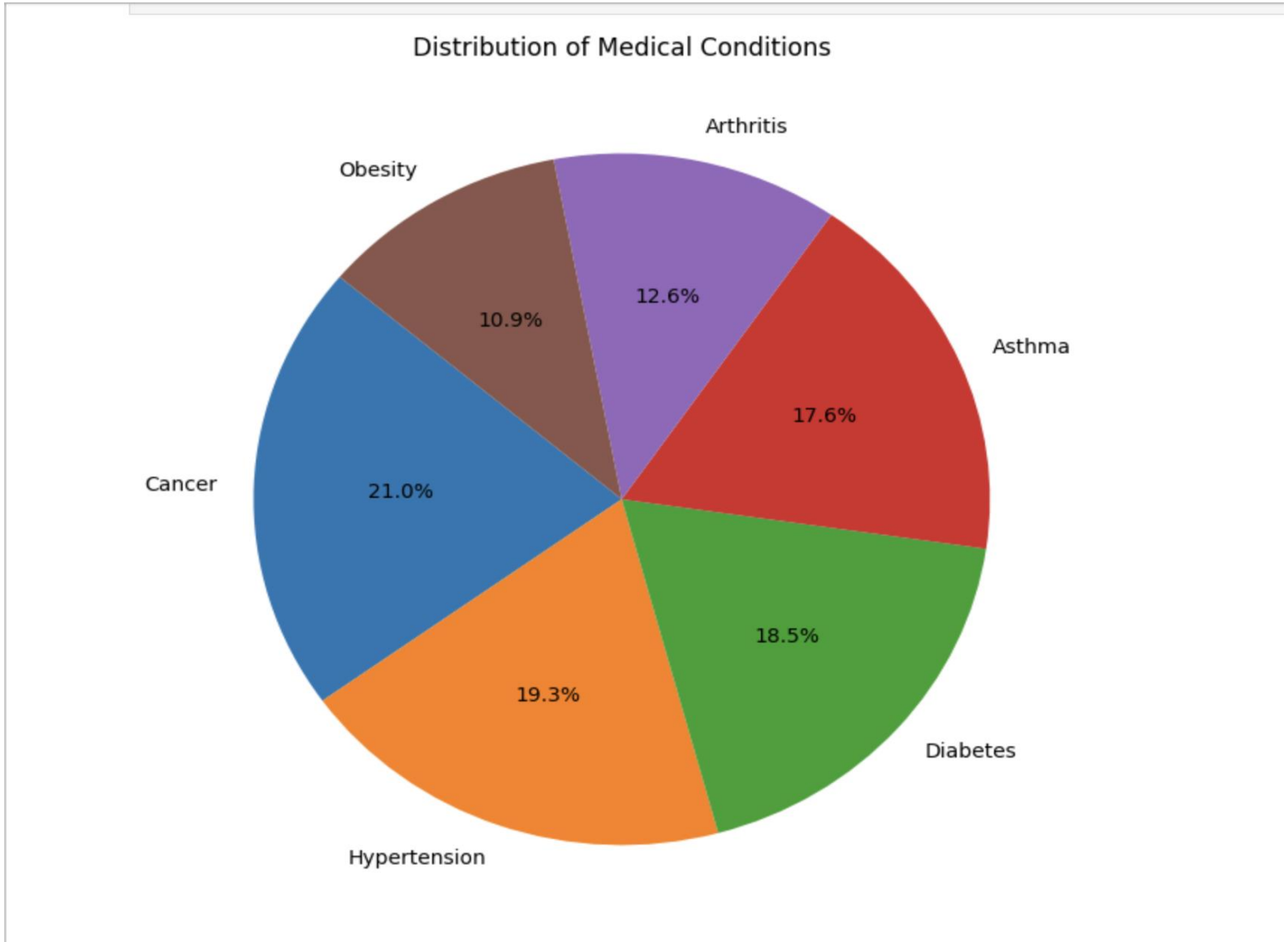
OVERVIEW OF HEALTHCARE DATA

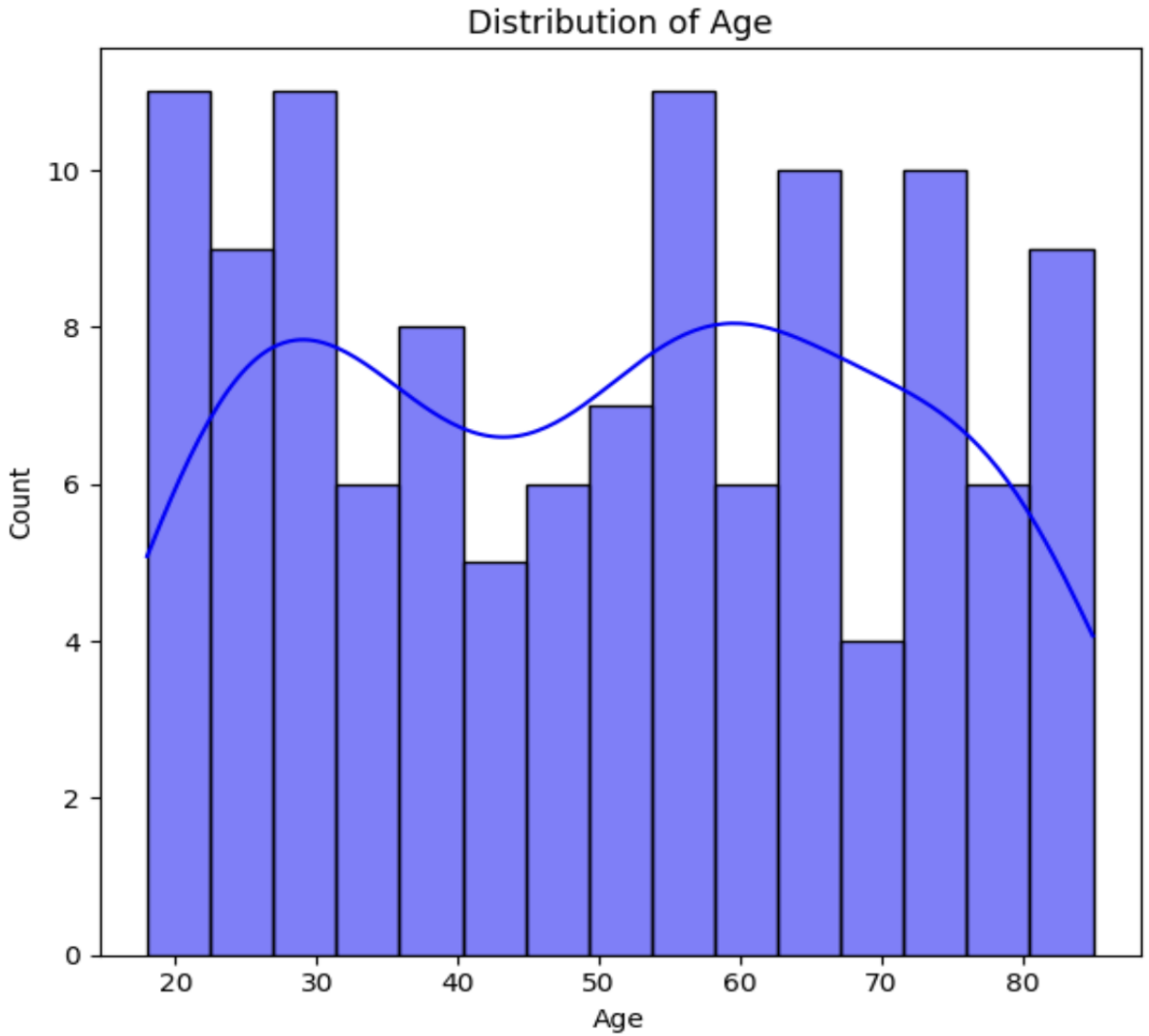
- This is about understanding the types of data collected in healthcare, like patient records, medical tests, and treatment histories.

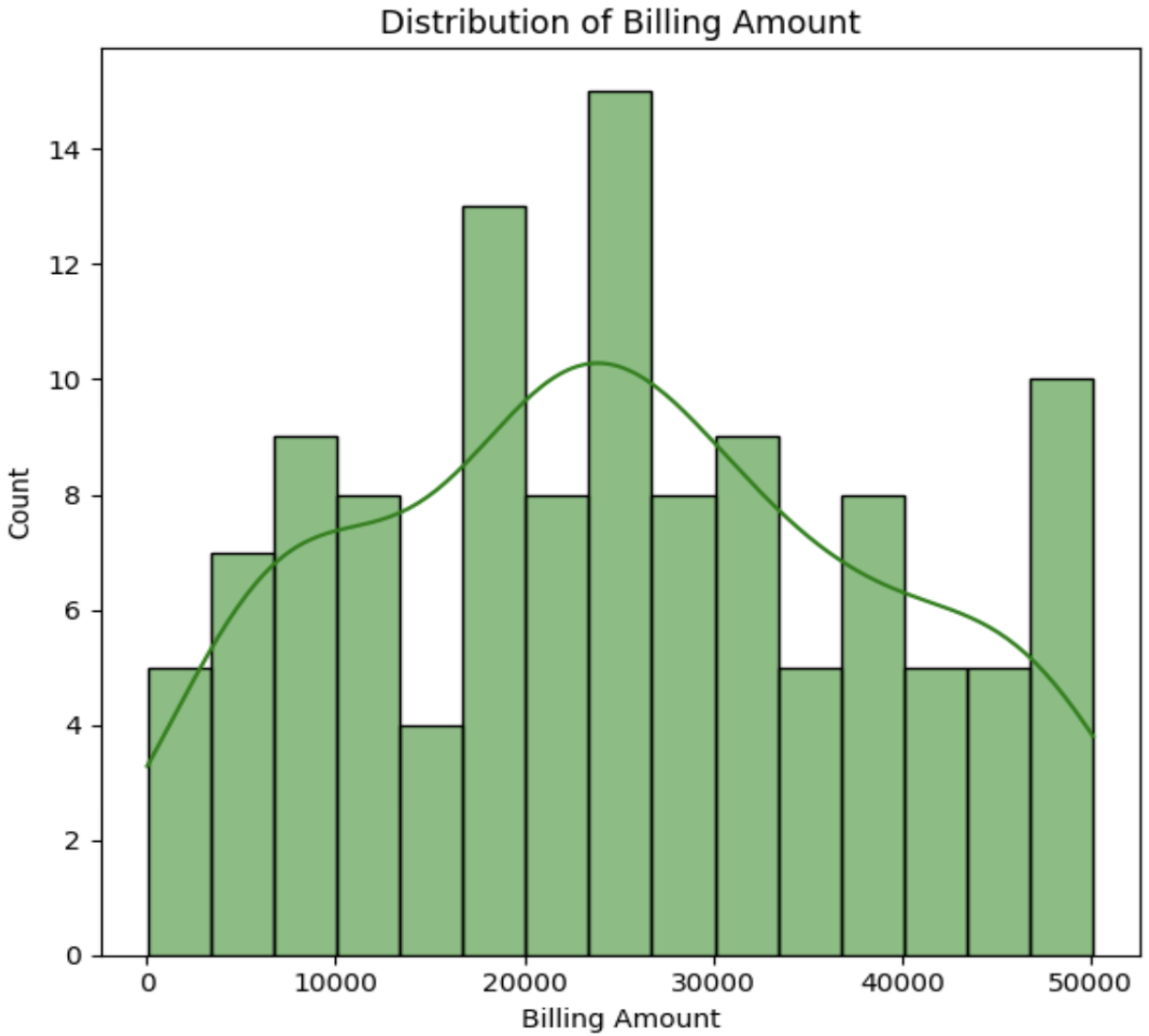
BENEFITS & FUTURE OUTLOOK

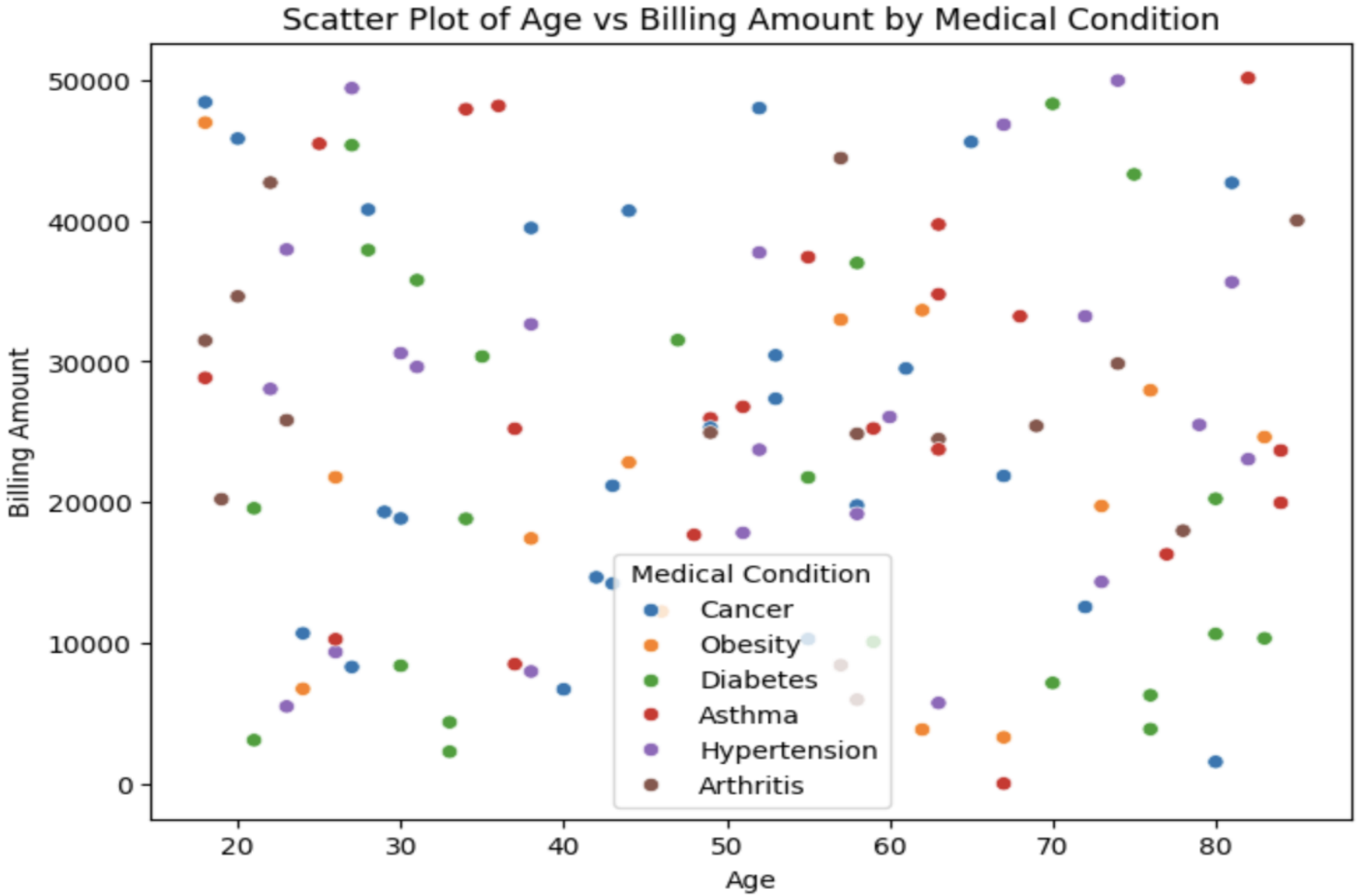
- This covers how data analysis helps improve patient care, reduce costs, and what the future holds for using data in healthcare.

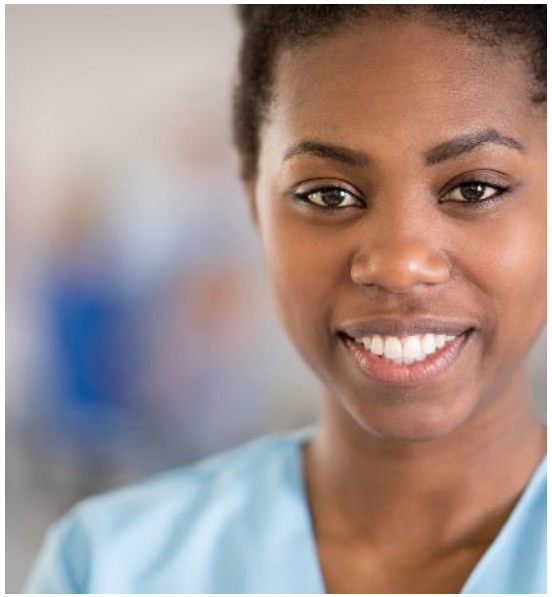
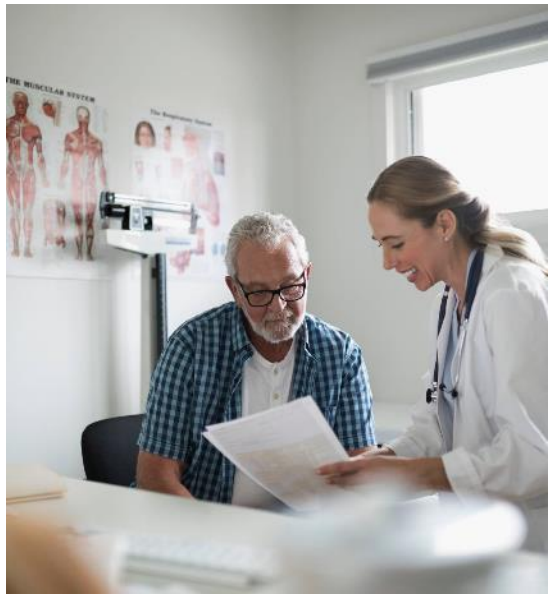
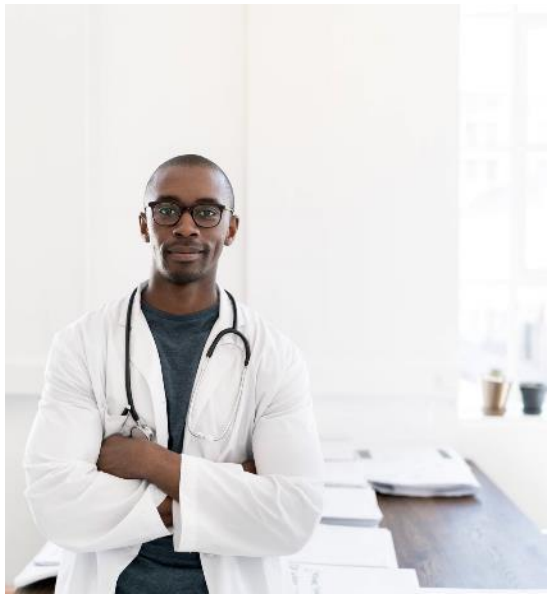
SOME OUTPUT


Distribution of Medical Conditions
Arthritis
Obesity
12.6%
10.9%
Asthma
17.6%
Cancer
21.0%
18.5%
19.3%
Diabetes
Hypertension


Distribution of Age
Count
Age
0
2
4
6
8
10
20
30
40
50
60
70
80


Distribution of Billing Amount
Count
Billing Amount
0
2
4
6
8
10
12
14
0
10000
20000
30000
40000
50000


Scatter Plot of Age vs Billing Amount by Medical Condition
Billing Amount
50000
40000
30000
20000
10000
0
20
30
40
50
60
70
80
Age
Medical Condition
Cancer
Obesity
Diabetes
Asthma
Hypertension
Arthritis

SUMMARY

Healthcare Data Analysis:

- **Purpose:** Healthcare data analysis helps improve patient care, reduce costs, and optimize healthcare operations by examining health-related data.
- **Data Sources:** Data is collected from electronic health records (EHR), patient surveys, medical imaging, wearable devices, and insurance claims.

THANK YOU

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