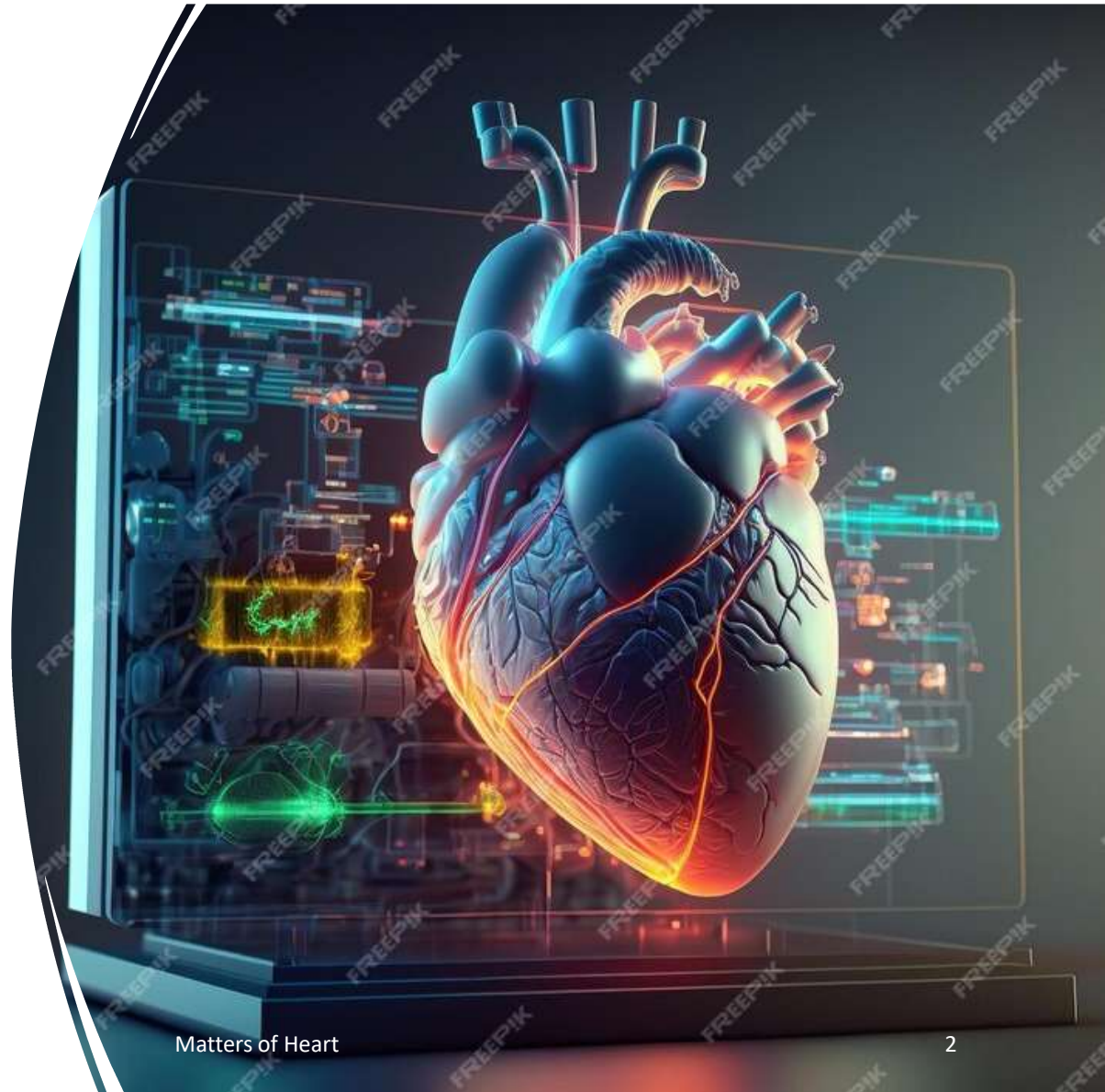# MATTERS OF HEART

Predicting survivability among cardiac patients.

Group 5

OUR OBJECTIVES

Develop a predictive model leveraging clinical features to assess the mortality risk and ejection fraction (EF) of heart failure patients, facilitating early intervention and personalized treatment strategies.

Why this topic is important?

Enhanced Patient Care: Accurate mortality risk prediction empowers healthcare providers to proactively manage heart failure patients, potentially reducing adverse outcomes and improving patient quality of life.

Resource Optimization: Efficient allocation of healthcare resources based on mortality risk predictions can enhance healthcare delivery and mitigate the burden on healthcare systems.

Ethical AI in Healthcare: Demonstrating the ethical application of AI in healthcare strengthens trust between patients, providers, and technology developers, fostering a culture of responsible innovation.

Ethical Considerations

- Equity in Healthcare
- Patient Privacy and Confidentiality

Tactical Decisions

- Feature Selection and Engineering
- Model Evaluation & Validation
- Risk Stratification Protocol

Task Description	Task Assigned to	Story Points
Data Finding, formatting/cleaning	Vishv	1
Exploratory Data Analysis	Vishv	2
Statistical analysis to determine correlation with various physiological factors	Riddhi	2
Predictive analysis for heart failure mortality	Harsh	3
Determine business strategy and implications	Riddhi	1

THANK YOU