

The background of the slide features a close-up, slightly blurred image of an electrocardiogram (ECG) strip. The strip has a light blue grid and a dark blue line representing the heart's electrical activity. The text is overlaid on the right side of the image.

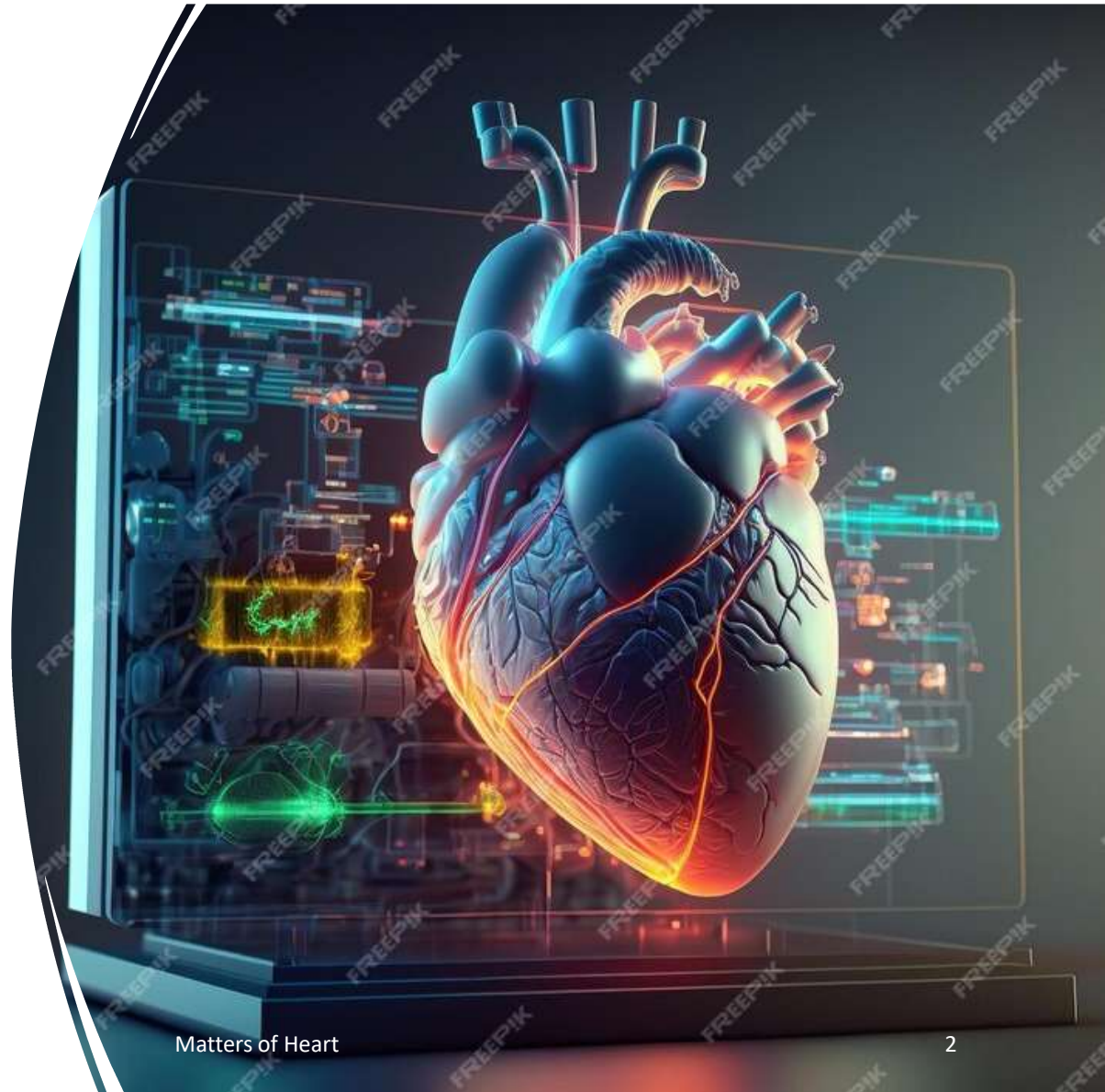
MATTERS OF HEART

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

The background of the slide features a faint, light blue ECG (heart rate) line on a grid pattern, which is partially obscured by the table.

| 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 |

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**THANK
YOU**