

# Sepsis Prediction

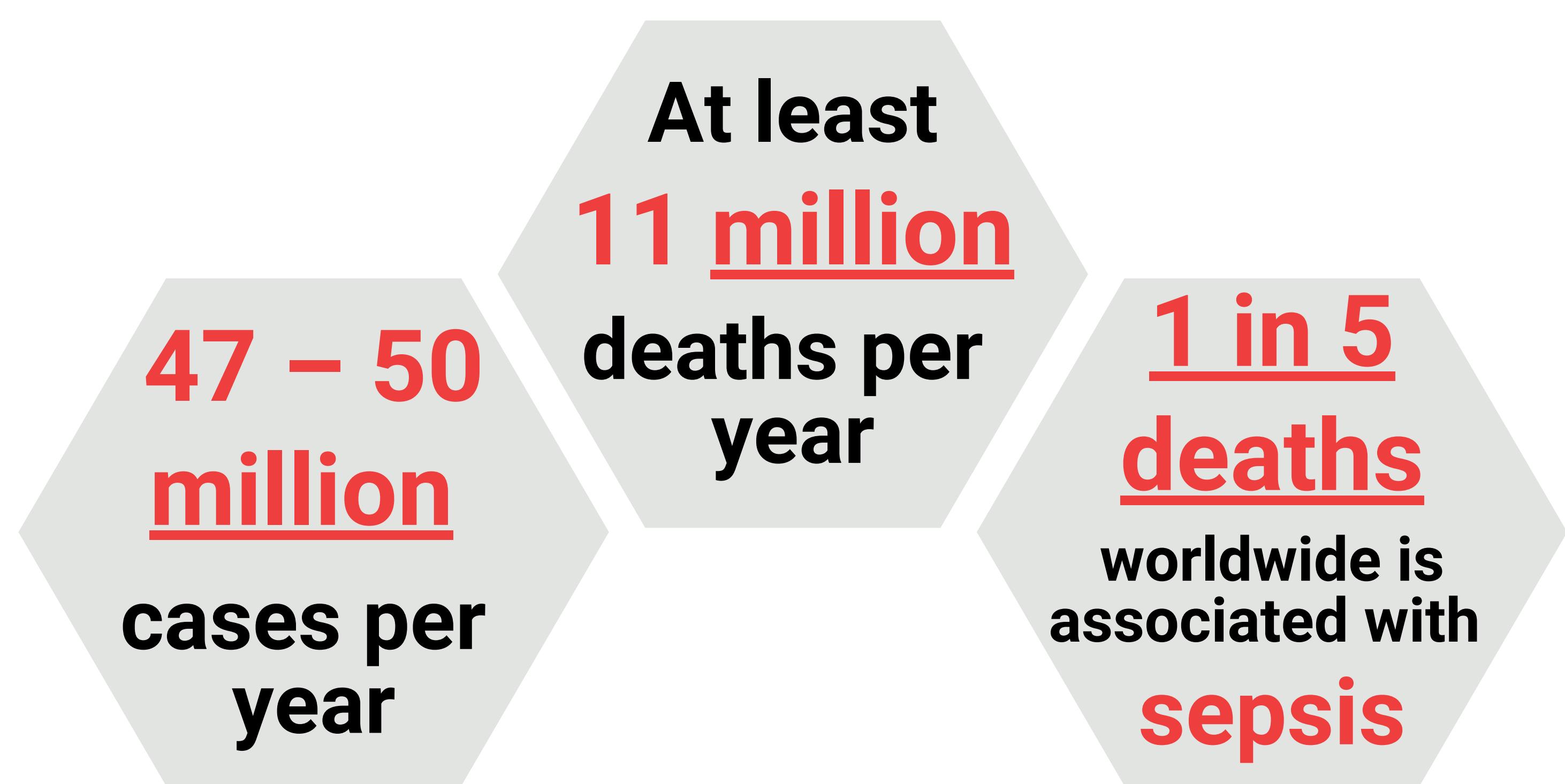
using structured data

## Group Members

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## Introduction



## Sepsis is the number

- 1**
- Cause of death in hospitals
  - Cause for hospital readmissions
  - Healthcare cost  
(e.g. \$62 billion is spent on sepsis healthcare costs in the US alone)

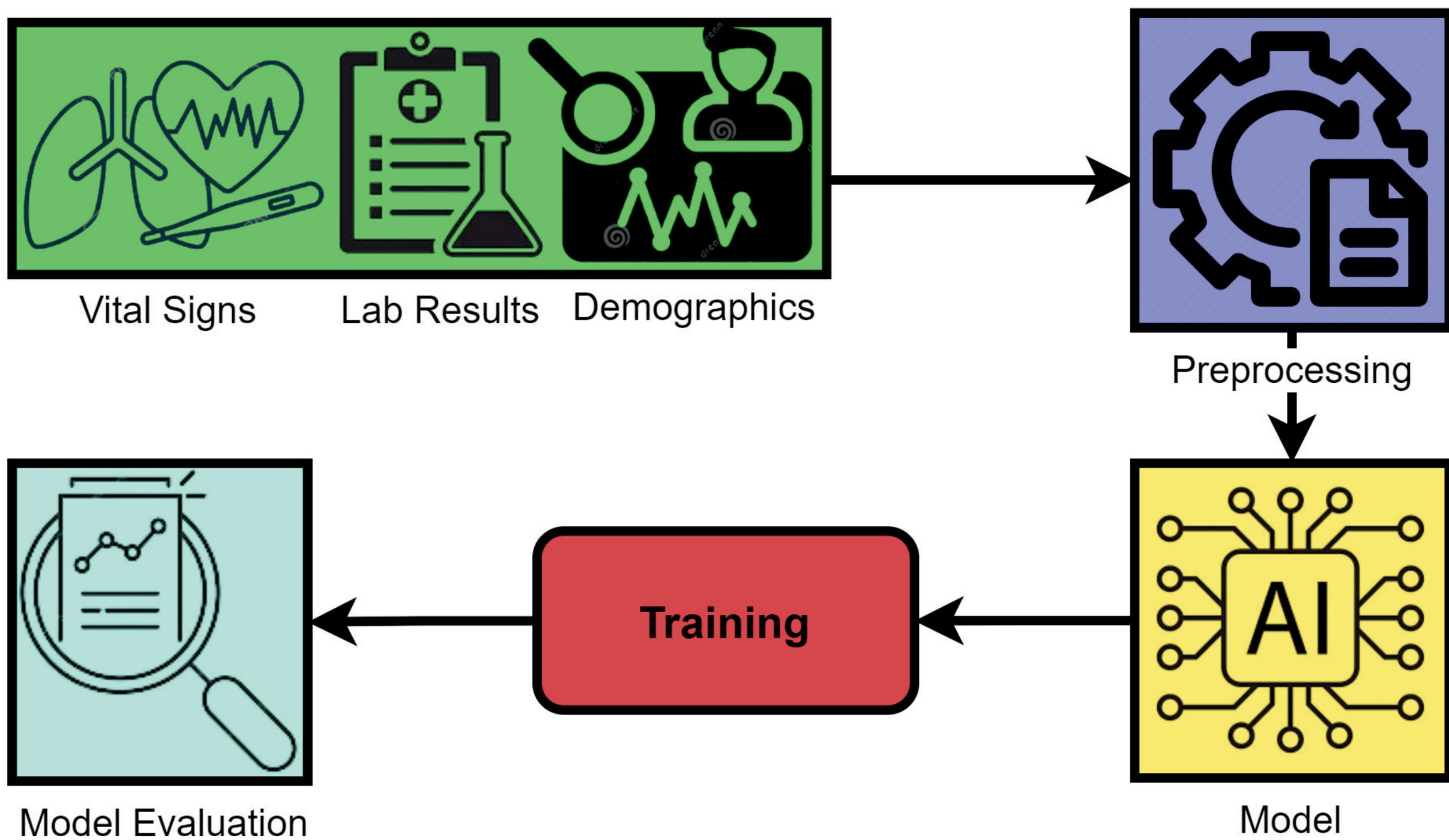
## Problem Statement

To address the challenge of delayed sepsis detection, which leads to high mortality rates, by leveraging structured clinical data for early and accurate prediction.

## UNO's Sustainable Development Goals



## Methodology



## Future Enhancement

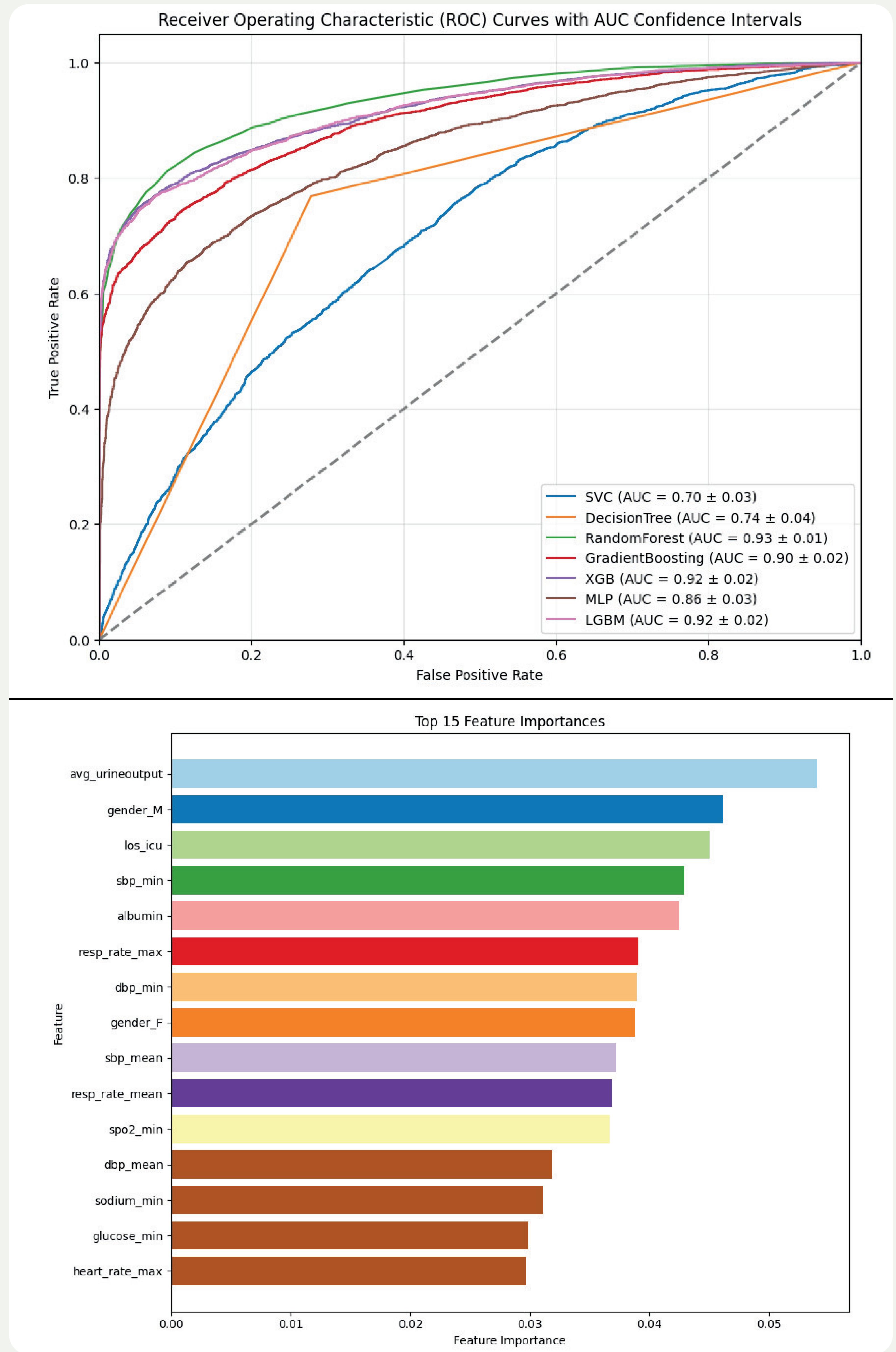
- Real-time integration with ICU monitoring systems.
- Incorporation of unstructured data, such as clinical notes.
- Personalized treatment recommendations.
- Deployment across diverse healthcare settings.
- Continuous improvement with privacy-preserving learning.

## Bibliography

World Sepsis Day. (n.d.). Sepsis facts. World Sepsis Day. Retrieved December 16, 2024, from <https://www.worldsepsisday.org/sepsisfacts>

Li, Qiang & Ma, Hanbo & Song, Dan & Bai, Yunpeng & Zhao, Lina & Xie, Keliang. (2024). Early prediction of sepsis using chatGPT-generated summaries and structured data. *Multimedia Tools and Applications*. 1-23. 10.1007/s11042-024-18378-7.

## Result



## Supervisor

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