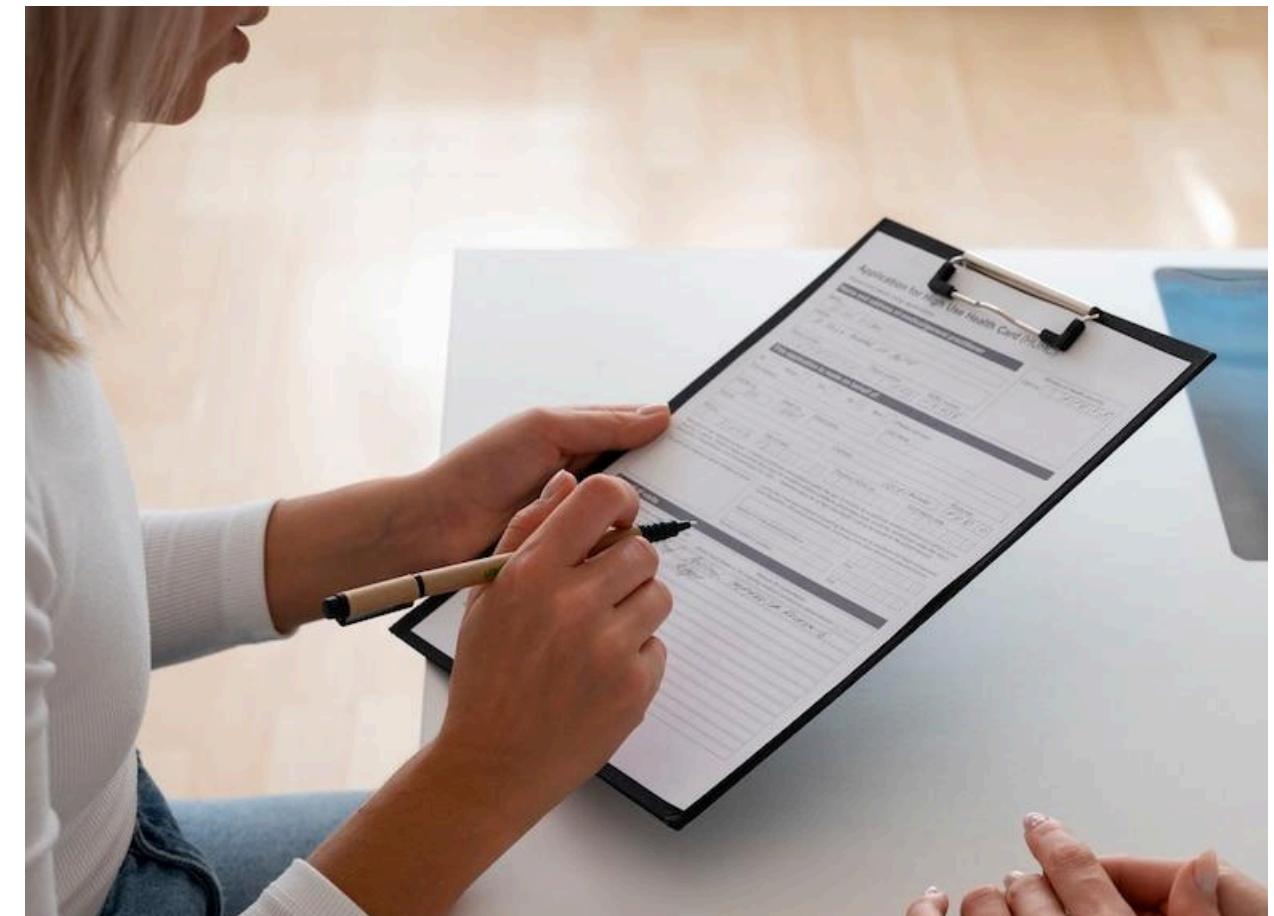


PREDICTING HOSPITAL READMISSION RISK



PROJECT OVERVIEW

Objective:
To develop a model that
accurately identifies patients at
high risk of readmission,
enabling proactive intervention
to reduce healthcare costs and
improve patient care.



BUSINESS UNDERSTANDING



PROBLEM

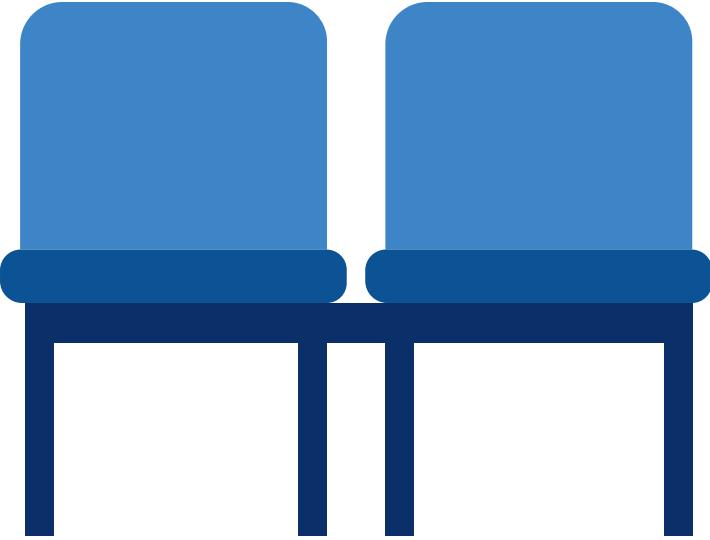
Hospital readmissions are costly and negatively impact patient well-being.

IMPACT

Reducing readmission rates improves hospital efficiency, lowers costs, and enhances patient satisfaction.



DATA UNDERSTANDING



PATIENT DEMOGRAPHICS

Age, gender, ethnicity, etc.

HOSPITAL METRICS

Length of stay, discharge type, etc.

GOAL

To leverage the data for a comprehensive view of patient risk factors.

SOLUTION APPROACH

Data Preparation

Clean and preprocess data

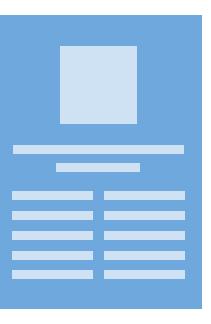
Model Training and Tuning

Training models and tuning parameters

Evaluation

Comparing models to ensure reliable identification of high-risk patients.

RECOMMENDATION SYSTEM



APPLICATION

Based on prediction scores, the system would recommend targeted interventions for high-risk patients.



BENEFITS

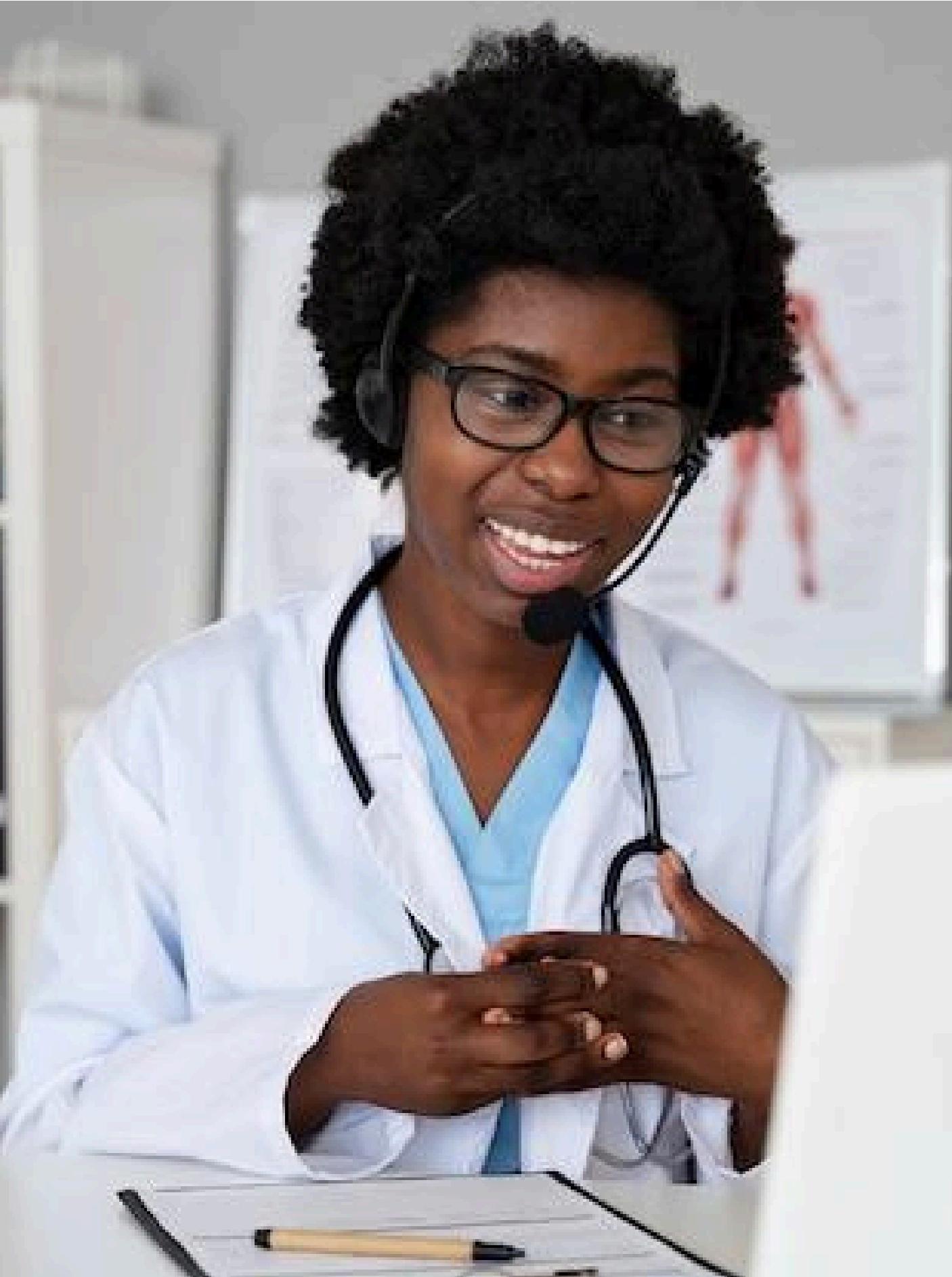
Enables hospital staff to allocate resources more effectively, focusing on patients who need follow-up care most urgently.

EXPECTED OUTCOMES

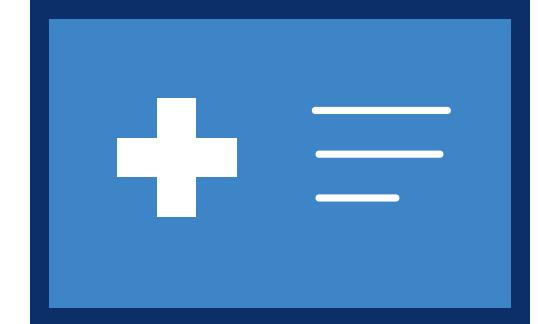
Reduced Readmissions

Cost Savings

Better Patient Health Outcomes



CONCLUSION



Our model can reliably anticipate risk
of patient readmission.

With early intervention, this insight
allows hospitals to plan staffing, bed
occupancy, and supply needs more
effectively.





THANKS!



DO YOU HAVE ANY QUESTIONS?