



MED-ASSIST AI

Smarter hospital flow, with AI at your side.



BEDS STAY FULL
LONGER THAN NEEDED

Discharge decisions often happen hours, sometimes days later than medically necessary.

DELAYS CREATE
DOWNSTREAM OVERLOAD

ERs and other wards back up when patients can't be transferred or admitted in time.

NURSES RELY ON
MANUAL TRACKING

Staff must monitor dozens of patients and detect readiness by memory or notes.

DOCTORS AGREE:
THIS IS A REAL NEED

We spoke with hospital staff who confirmed the pain and said they'd use this today.

PROBLEM

INSIGHTS FROM PROF. MICHAEL ROSENBERG

Q: Does delayed discharge impact hospital flow?

A: “Yes, absolutely.”

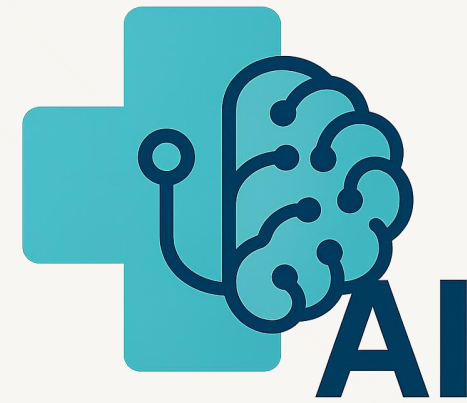
Q: How many staff members, on average, take part in the decision to release a single patient and how long does it take?

A: “It depends on the treating doctor’s decision, but usually the treating doctor, attending nurse and head nurse.... It takes at least 3-4 hours a day... just to get an evaluation”

Q: Are all clinical patient data fully documented in EMR system?

A: “Yes, all of it.”





SOLUTION

INTELLIGENT DECISIONS

AI predicts discharge readiness and detects department overloads in real-time.

SIMPLE

Nurses and staff receive mobile-friendly alerts and clear, explainable suggestions.

CLINICALLY SAFE

Built with full transparency, data security, and real clinical input.

IMMEDIATE IMPACT

Can reduce patient stay hours and free up beds starting from day one.



PRODUCT OVERVIEW

MONITORS HOSPITAL LOAD

Continuously tracks ward occupancy, staffing levels, and alerts on overload.

PREDICTS PATIENT DISCHARGES

Analyzes vitals, history, and treatments to flag patients likely ready to go home.

NOTIFIES THE RIGHT STAFF

Sends real-time alerts to nurses and doctors with explainable recommendations.

INFORMS PATIENT FAMILIES

Offers a secure, AI-powered chat that answers common status questions.

WHERE WE USE AI

DISCHARGE PREDICTION

Trained ML model analyzes vitals, history, and treatment response to flag readiness.

STAFF REALLOCATION SUGGESTIONS

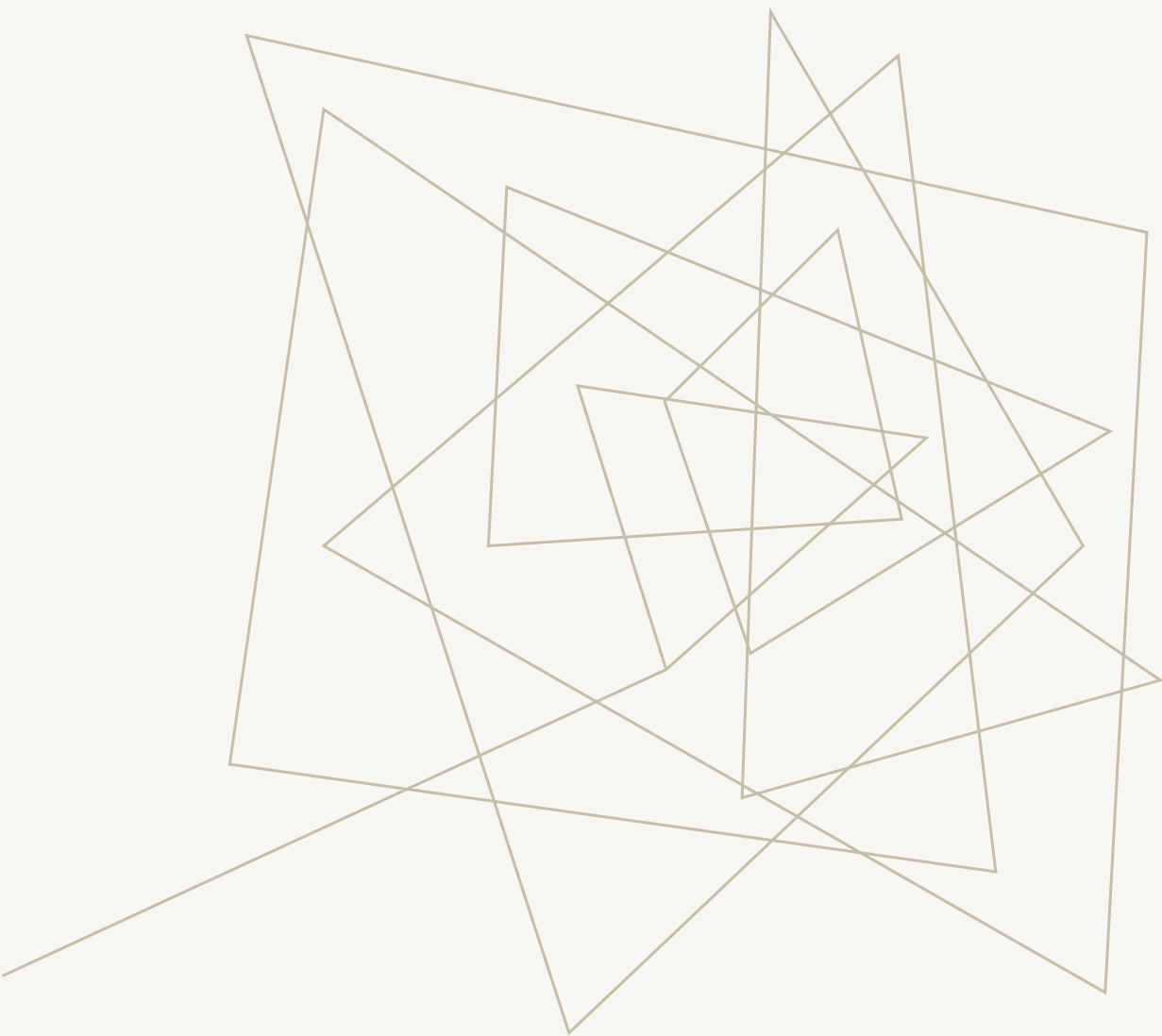
AI detects overloaded wards and suggests where backup staff can be pulled from.

PATIENT FAMILY CHAT

LLM-based assistant answers common questions securely, using filtered EMR data.

EXPLAINABLE INSIGHTS

All AI decisions are accompanied by visible rationale and supporting data based on past decisions and doctors' affirmations.



DEMO





AI & DATA ETHICS

PRIVACY BY DESIGN

We work only with de-identified data - no personal identifiers used.

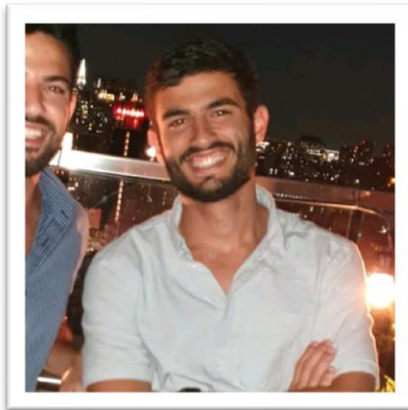
HUMAN-IN-THE-LOOP

The AI offers suggestions - final decisions stay with clinical staff.

DOCTOR-APPROVED APPROACH

Prof. Rosenberg confirmed that such a system is viable without patient identifiers.

MEET THE TEAM



Nitzan Ventura

Computer Science
B.Sc. Student



Noam Shabat

Computer Science
B.Sc. Student



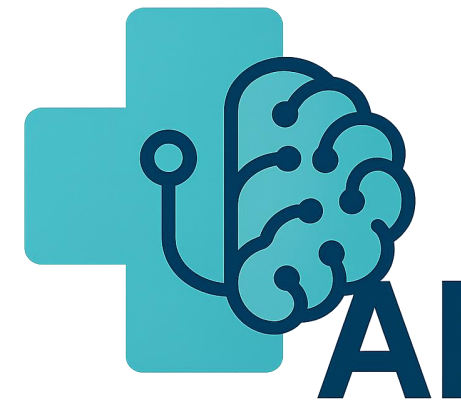
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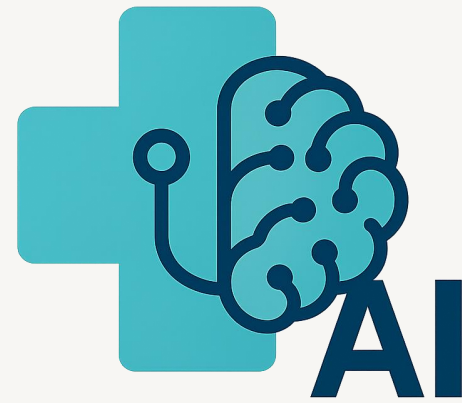
SUMMARY

MedAssist AI is a hospital assistant built to tackle one of the most pressing challenges in healthcare - delayed patient discharge.

By combining real clinical insights, live hospital data, and AI-powered reasoning, we help hospitals detect overloads, suggest early discharges, and notify staff in real time.

Our tool is safe, explainable, and ready to make an immediate operational impact.

With MedAssist AI, hospitals can improve patient flow, reduce staff strain, and give families peace of mind.



THANK YOU

Thank you for your time and attention.

We welcome your feedback, questions, and collaboration.