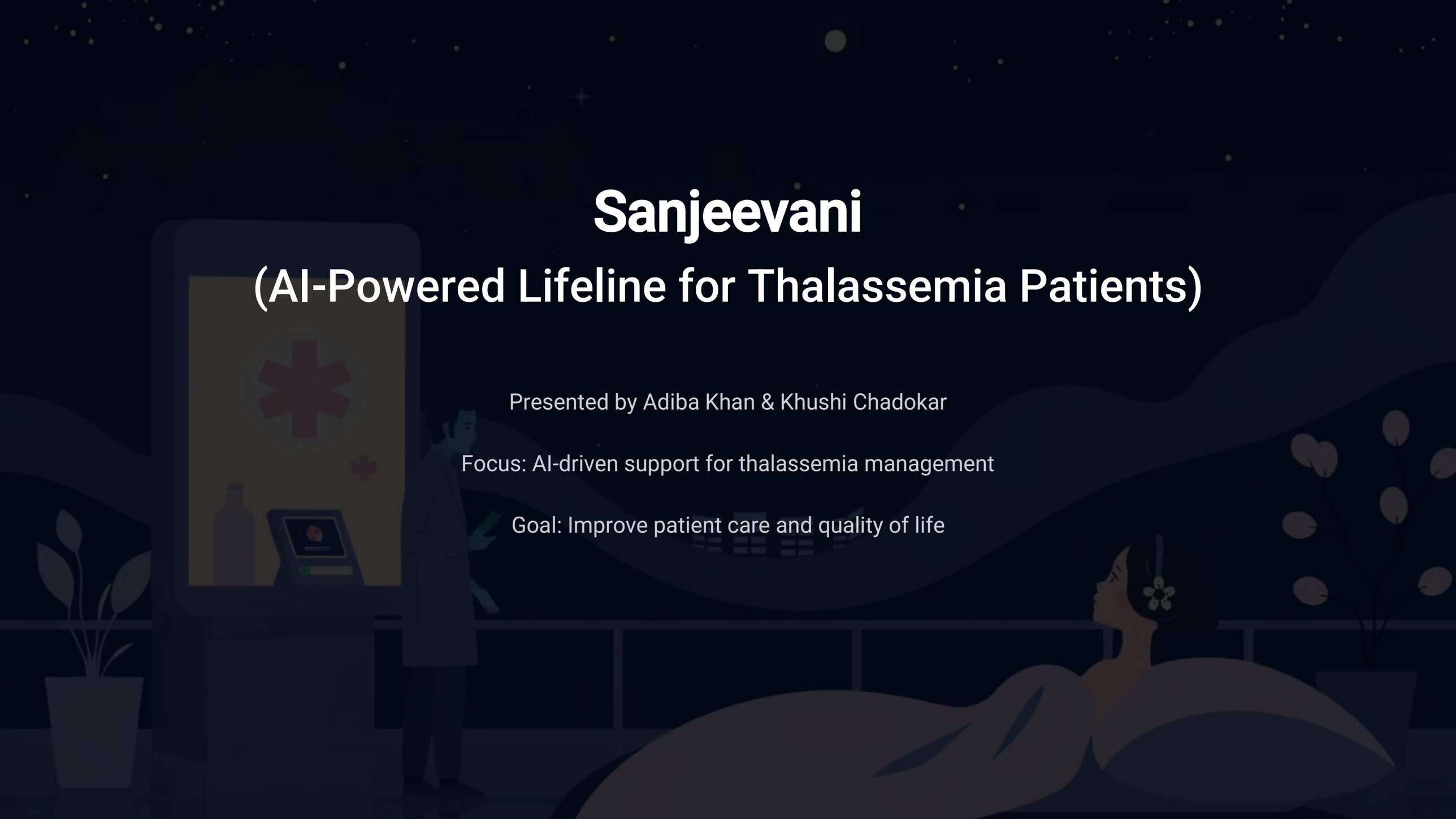
# Sanjeevani

## (AI-Powered Lifeline for Thalassemia Patients)

Presented by Adiba Khan & Khushi Chadokar

Focus: AI-driven support for thalassemia management

Goal: Improve patient care and quality of life



# 🩸 Problem Overview: Challenges Faced by Thalassemia Patients

- **Finding regular and reliable blood donors** due to low awareness and inconsistent donations.
- **Maintaining medical records**, tracking transfusions, and staying connected with care networks is often difficult.
- **Data security** concerns while handling sensitive medical information.
- **Accessing timely and quality healthcare** and understanding how to manage their condition over a lifetime.
- **Lack of a unified, real-time system** to connect donors, patients, and hospitals efficiently.

# Proposed AI-Based Solution: Sanjeevani

Sanjeevani is an AI-powered platform built to support Thalassemia patients and streamline blood donor connectivity and care access.

## AI-Based Donor Prediction & Matching

Uses past donation patterns and donor profiles to predict availability and connect with patients in real time via Blood Bridge integration.

## 24/7 AI Chatbot (CareBot)

Offers instant support and answers queries related to Thalassemia, medication, diet, and nearby blood camps or healthcare providers.

## Awareness & Education Module

Personalized, multilingual learning materials using NLP to help patients, parents, and the general public understand Thalassemia better.

## Smart Care Dashboard

Patients and families can access treatment reminders, upload reports, track transfusions, and manage schedules securely

# Technology Stack

- **Microsoft Azure:** Cognitive services, Bot services, Azure functions and Blob storage
- **AI/ML:** Scikit-learn, Python (for donor prediction)
- **Frontend:** HTML, CSS, JS (optional)
- **APIs:** Blood Bridge (if available), e-RaktKosh
- **Database:** Azure Cosmos DB or Firebase


THANK YOU