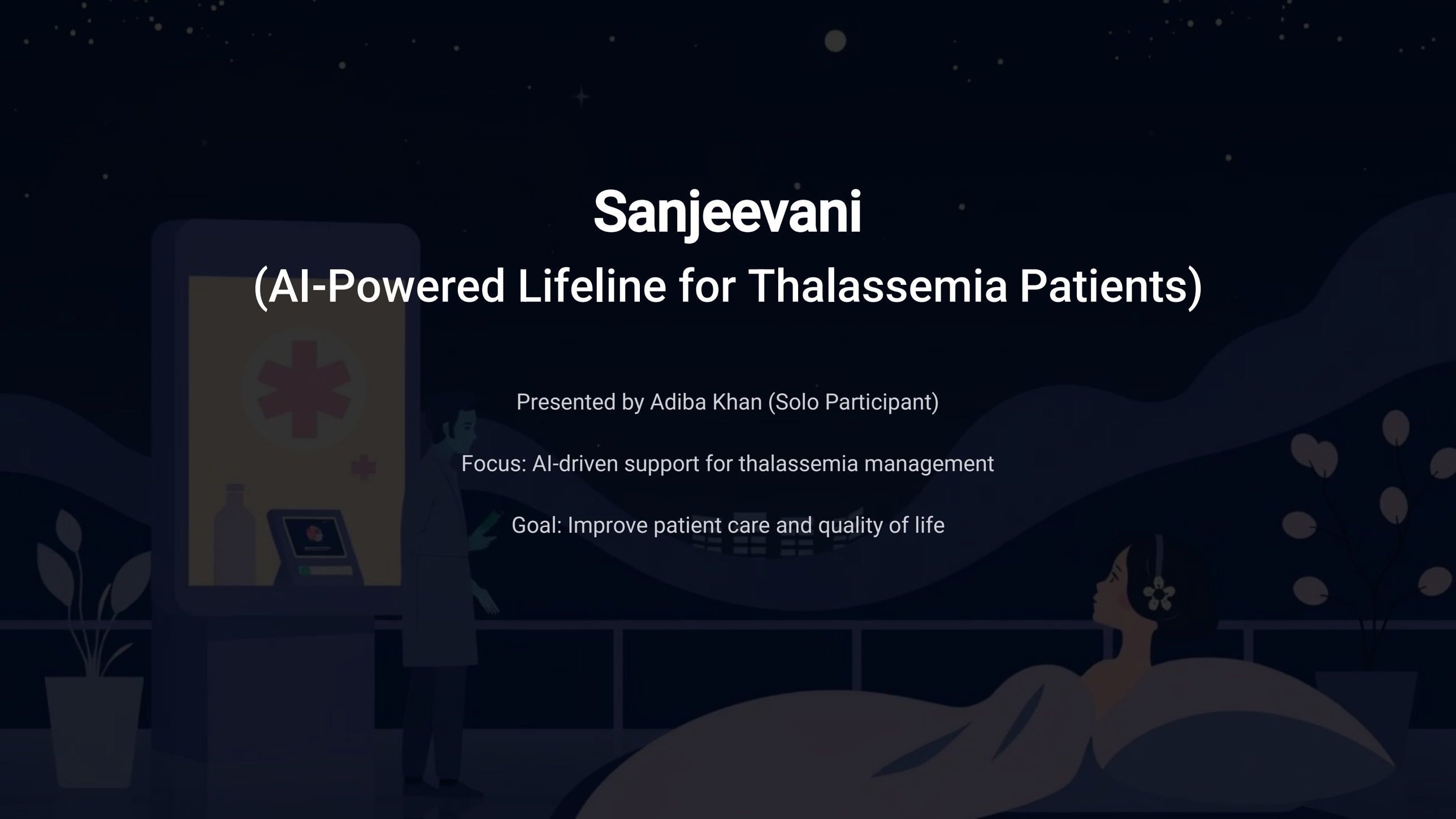
Sanjeevani

(AI-Powered Lifeline for Thalassemia Patients)

Presented by Adiba Khan (Solo Participant)

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