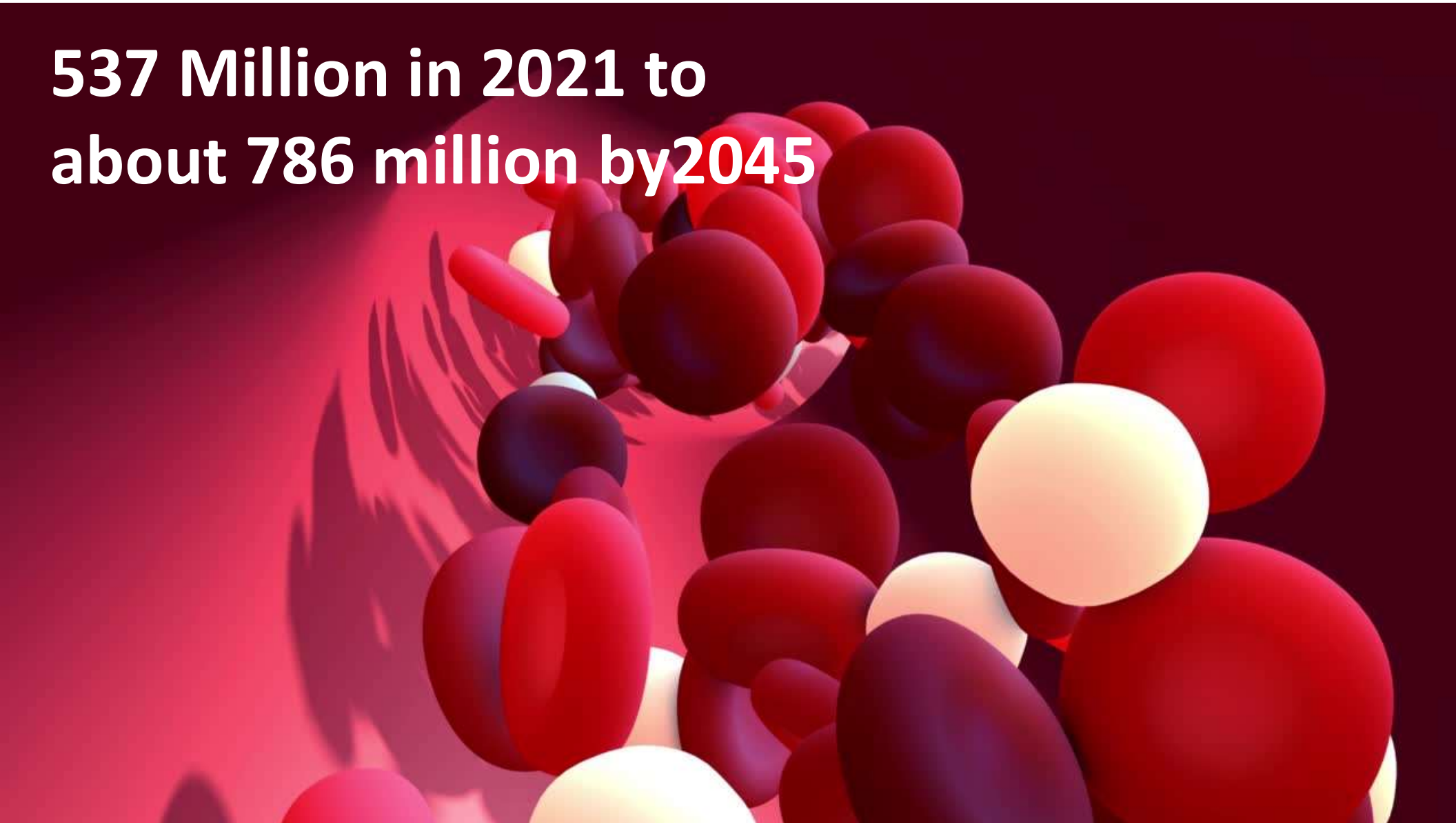
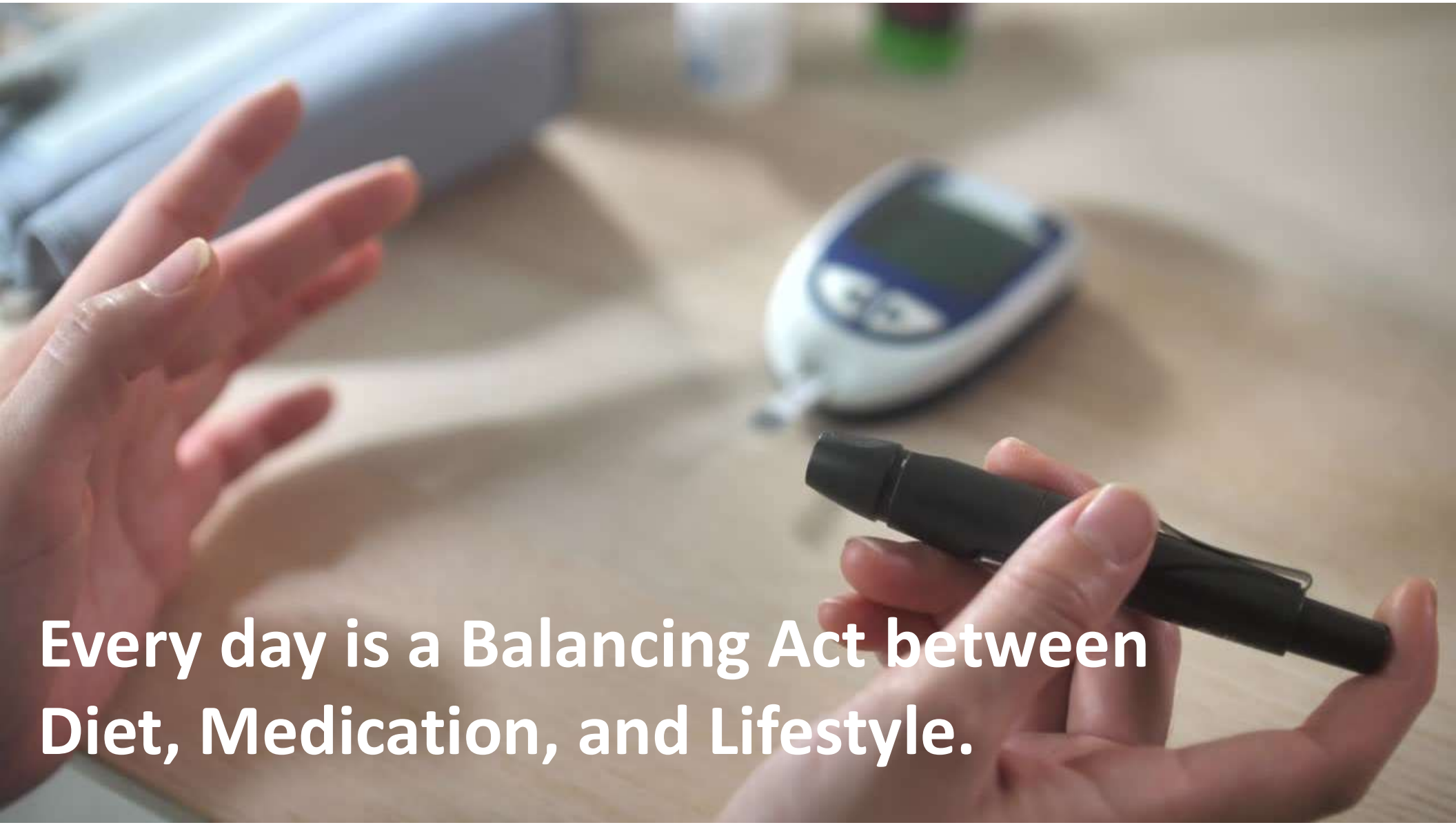
lab lab ai
lab lab NEXT
AI/ML API
Quantum Starters
Personalized Diabetes Plan
NEXT
HACKATHON #2
EDGE RUNNERS
AUG 16 - AUG 23

Diabetic Cases are in Rise

International Diabetes Federation (IDF)


537 Million in 2021 to
about 786 million by2045


Every day is a Balancing Act between
Diet, Medication, and Lifestyle.

Glyco-Fit
PERSONALIZED DIABETESE PLAN
https://lablab.ai/event/next2-edge-runners

Objectives

- Improve health outcomes for diabetic patients through personalized diet plans.
- Address the gap in tailored nutritional guidance for diabetics, leveraging cutting-edge AI technology

Features Overview

01 **Personalized diet plans**

Diet plans based on individual needs.

02 **Guidance**

Tips on diabetes management.

03 **Interactive interface**

Interactive questionnaires to customize plan

04 **Visualization**

Enhancing comprehension

Technology Stack

01 **Cloud-Based AI Services**
Hugging Face's TinyLlama.

02 **API Integration**
Seamless integration of AI models with custom backend logic.

03 **Data Handling**
Secure and compliant data storage

04 **Maintenance and Updates**
Continuous integration and deployment pipeline

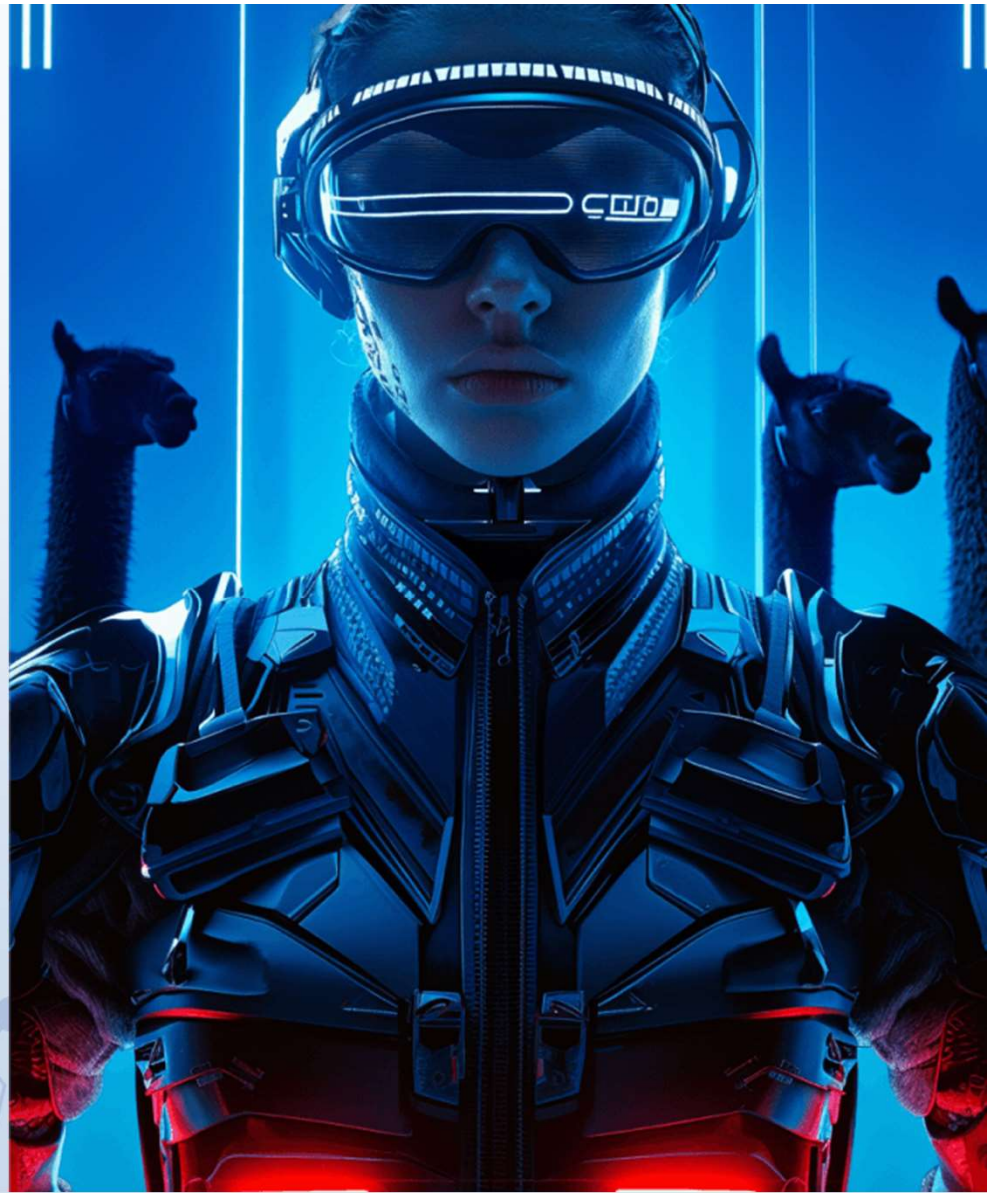
Hackathon Challenge

Future Recommendations

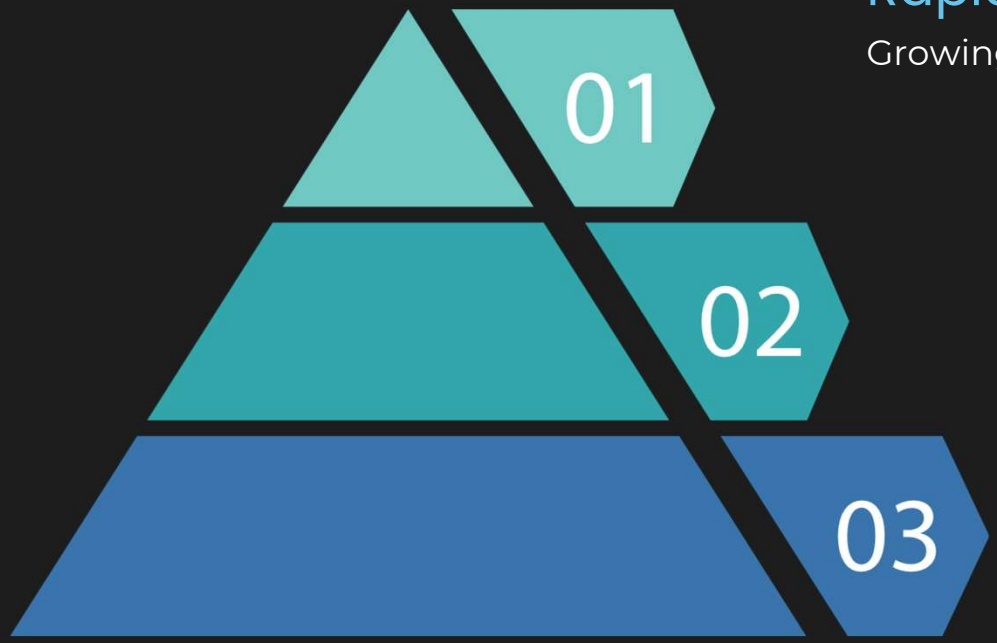
Use Meta's Llama 3.1 models to generate synthetic datasets and train smaller models optimized for edge devices like smartphones, laptops, IoT devices, and tablets.

Key Objectives:
Generate Synthetic Data: Utilize Llama 3.1 to create high-quality, diverse datasets.
Optimize Models: Train and optimize smaller models (e.g., TinyLlama, Phi-3) for edge device performance.
Deploy on Edge Devices: Develop cloud prototypes designed for seamless deployment on edge devices, ensuring efficient local data processing.

Showcase your innovative solutions and the potential of running sophisticated AI models on edge hardware!



Market Value



Rapid Market Expansion

Growing demand for personalized healthcare solutions.

Long-term Value

Establishing a foothold with a scalable, AI-driven solution

Increased Adoption

Significant potential to reduce healthcare costs and improve life quality for millions of diabetics worldwide

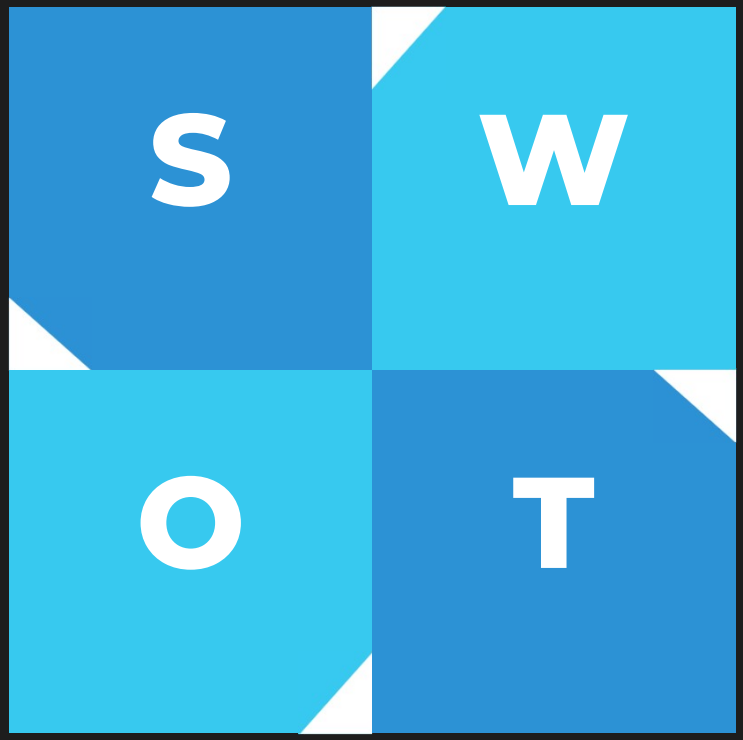
SWOT Analysis

STRENGTHS

- Advanced AI-driven personalization
- Strong focus on diabetic health and compliance

WEAKNESSES

- High dependency on third-party AI APIs
- Initial data privacy and security concerns



OPPORTUNITIES

- Expanding market for health tech solutions
- Partnerships with hospitals and health insurers

THREATS

- Regulatory and compliance risks
- Technology adoption rate among target demographic

Team Quantum Starters

Personalized Diabetes Plan

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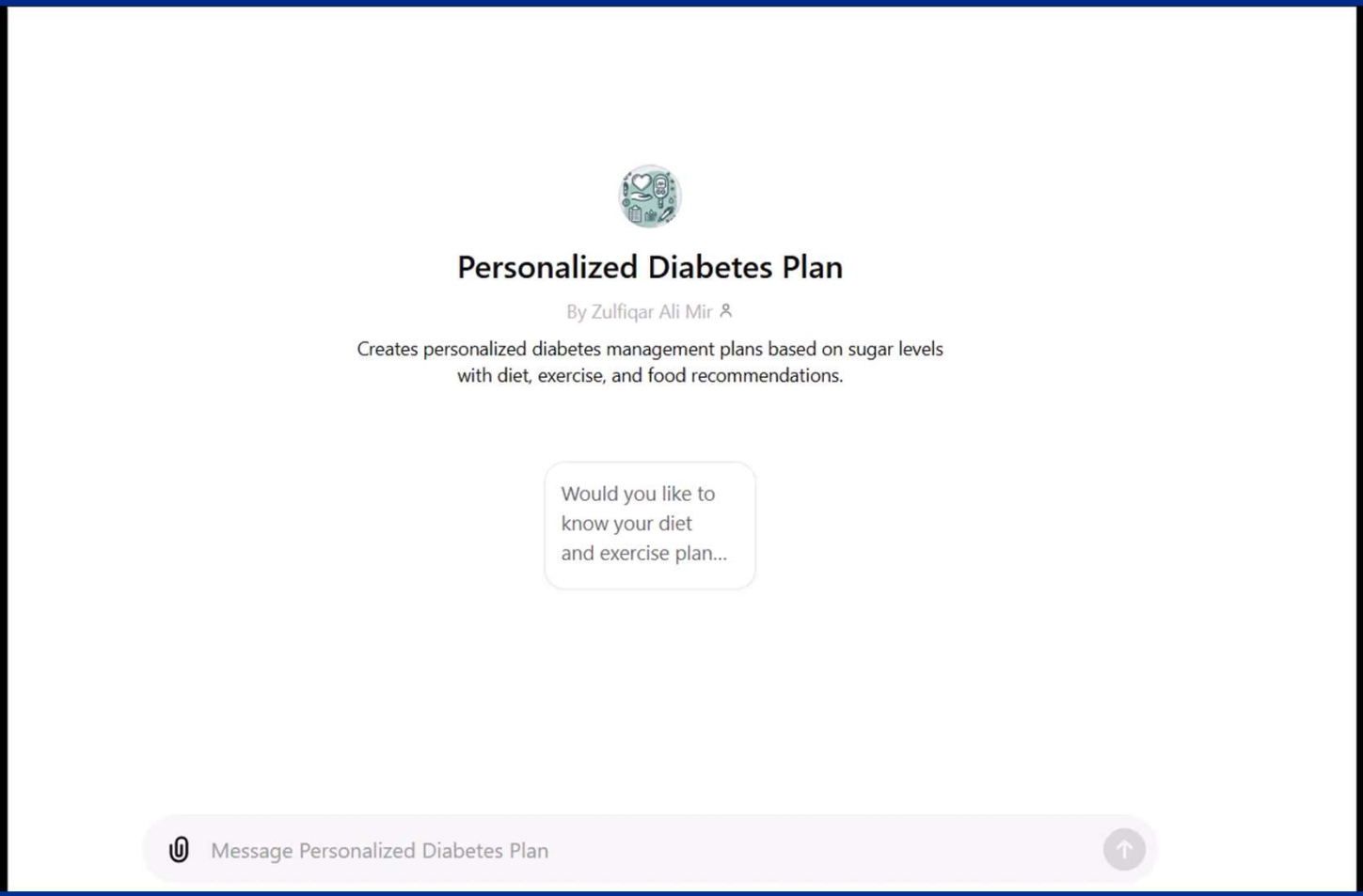
Demo

Personalized Diabetes Plan

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