



NUTRISCAN AI: AN AI-POWERED CLINICAL ECOSYSTEM FOR REAL-TIME, PERSONALIZED DIABETES MANAGEMENT

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THE CLINICAL CHALLENGE



The Gap Between Episodic Care & Continuous Self-Management

- Daily food choices are the most decisive factor in diabetes outcomes | • Traditional care is infrequent, but management is a 24/7 challenge at the point of consumption | • Existing digital tools lack the clinical depth, multilingual support, & real-time context required for India's diverse populations.

Objective: To provide comprehensive, real-time, clinically-aware guidance by leveraging multi-modal AI.

THE NUTRISCAN AI SOLUTION

A Virtual Nutritionist Ecosystem

1. Meal Plate Scanning (For Homemade Meals):

"Real-time portion estimation & Glycemic Load calculation for non-packaged, homemade meals."

2. Food Label Scanning & Personalized Analysis:

"Deep risk analysis generates a personalized score based on the user's unique clinical profile (e.g., HbA1c, medications)."

3. Underlying Technology (The "How"):

"Powered by a secure, API-driven architecture that ensures clean, predictable, & structured data output for clinical grade decision support."

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CLINICAL IMPACT & FUTURE DIRECTIONS

Democratizing Dietetic Care & Paving the Way for Clinical Validation

Next Step: Clinical Validation

A 6-months Randomized Controlled Trial (RCT) is planned for patients with T2DM to measure endpoints of change in HbA1c & Time-in-Range (for CGM users).

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KEY IMPACT POINTS


Addresses Major Barriers

Successfully tracks homemade meals, providing unprecedented insights for real-world adherence.


Democratizes Expertise

Delivers a virtual nutritionist to the user's pocket, overcoming the cost & accessibility of expert dietetic care.


Improves Patient Comprehension

Preliminary pilot testing indicates significant improvement in food label comprehension & real-time clinical support.