

Integrating AI, Ayurveda, and Modern Medicine for Early Alzheimer's Detection

This presentation introduces a groundbreaking, interdisciplinary approach. It combines Artificial Intelligence, Ayurvedic wisdom, and Modern Medical advancements. Our goal is early detection and holistic management of Alzheimer's disease.





The Growing Global Challenge

Irreversible Neurodegeneration

Alzheimer's is a progressive disorder with no permanent cure. It leads to gradual cognitive decline and memory loss.

Widespread Global Impact

Over 55 million people worldwide live with dementia. Alzheimer's is the leading cause, and numbers are rising.

Frequently Missed Diagnosis

Diagnosis is often delayed or missed. This is especially true in younger adults. It's due to low awareness, stigma, and lack of affordable tools.



Bridging Diverse Modalities

AI-Powered Cognitive Analysis

Utilizing advanced algorithms for precise cognitive assessment.

Ayurvedic Interventions

Incorporating traditional Unmada treatments for holistic well-being.

Modern Clinical Referral

Establishing clear protocols for timely medical consultations.

This multi-pronged strategy addresses both early detection and preventive care.



Diagnostic Gaps We're Solving

1

Early Detection Void

No screening tools exist for the 20-45+ age group.

2

Ignored Early Signs

Symptoms like memory slips are often dismissed.

3

Accessibility Barriers

Brain scans are expensive and unavailable to many.

4

Digital Solution Need

Strong demand for a low-cost, AI-driven, accessible alternative.



Project Vision: An AI-Powered Early Risk Assessment Model

Risk Detection

Analyzes voice samples, memory recall, and lifestyle habits.

Risk Level Scoring

AI computes a quantitative risk score (0–100).

Personalized Interventions

Low risk: Ayurvedic advice. High risk: clinical referral + Ayurvedic support.





Ayurveda + AI: The Research Foundation

Ayurveda

Alzheimer's-like disorders are categorized as "Unmada." Remedies include Brahmi for memory and Ashwagandha for neuroprotection.

Modern AI Research

Speech biomarkers show over 80% accuracy in early cognitive decline detection.

This project blends the ancient and the futuristic into one actionable tool.



Target Audience



Young Professionals

High stress, poor work-life balance.



People with Memory Lapses

Frequent forgetfulness, confusion.



Digital Lifestyle Users

Late-night usage, sleep disruption.



Speech Hesitation

Subtle early indicators often ignored.

🧠 System Architecture Overview



User Input

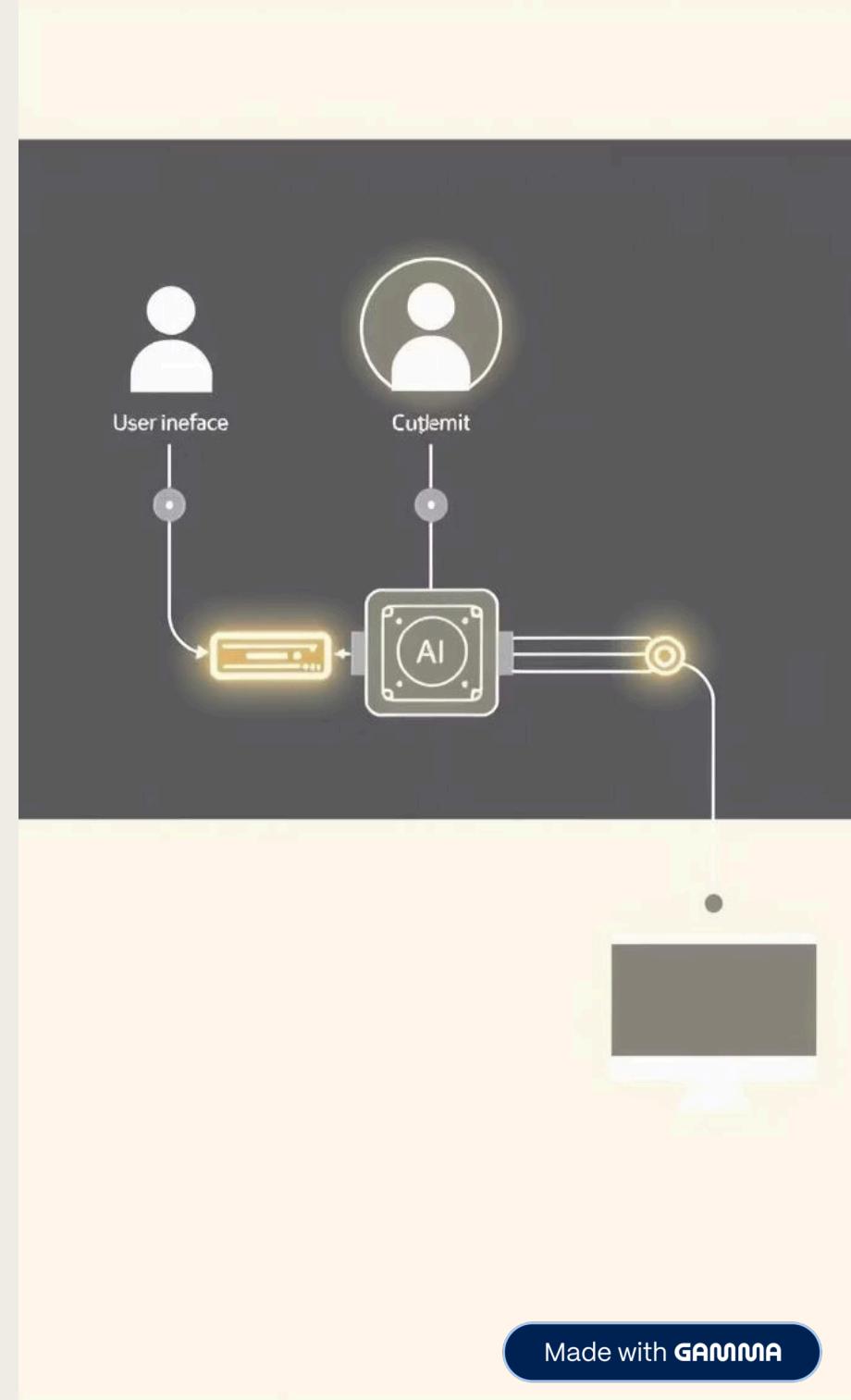
- Voice recording
- Short memory test
- Lifestyle questionnaire

AI Model Processing

- Speech analysis
- Cognitive pattern scoring
- Lifestyle risk evaluation

Output

- Risk Score (0-100)
- Tailored wellness tips
- Medical referral if high risk





Risk Score Interpretation & Recommendation

0-40	Normal	General Ayurvedic wellness practices
41-60	Mild Risk	Ayurvedic diet + Yoga + Lifestyle
61-100	High Risk	Neurology consultation + Ayurveda

