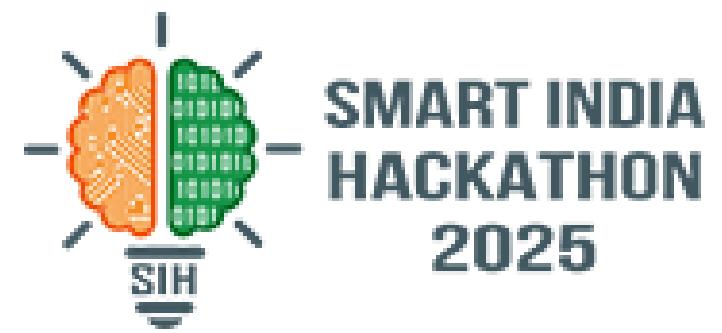
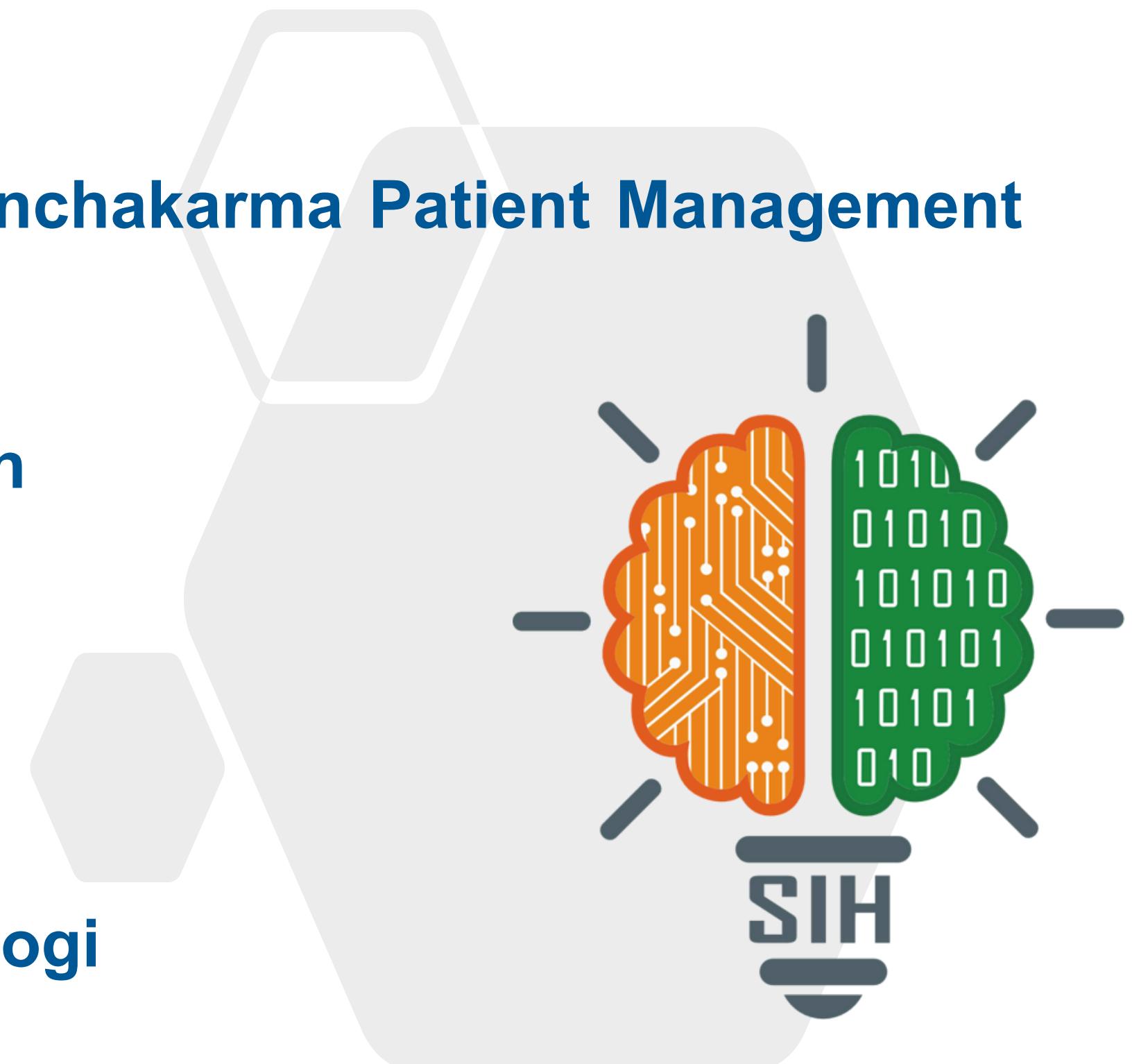


SMART INDIA HACKATHON 2025



- Problem Statement ID – **25023**
- Problem Statement Title - **AyurSutra: Panchakarma Patient Management and Therapy Scheduling Software**
- Theme - **MedTech / BioTech / HealthTech**
- PS Category- **Software**
- Team ID-
- Team Name (Registered on portal) - **Upyogi**

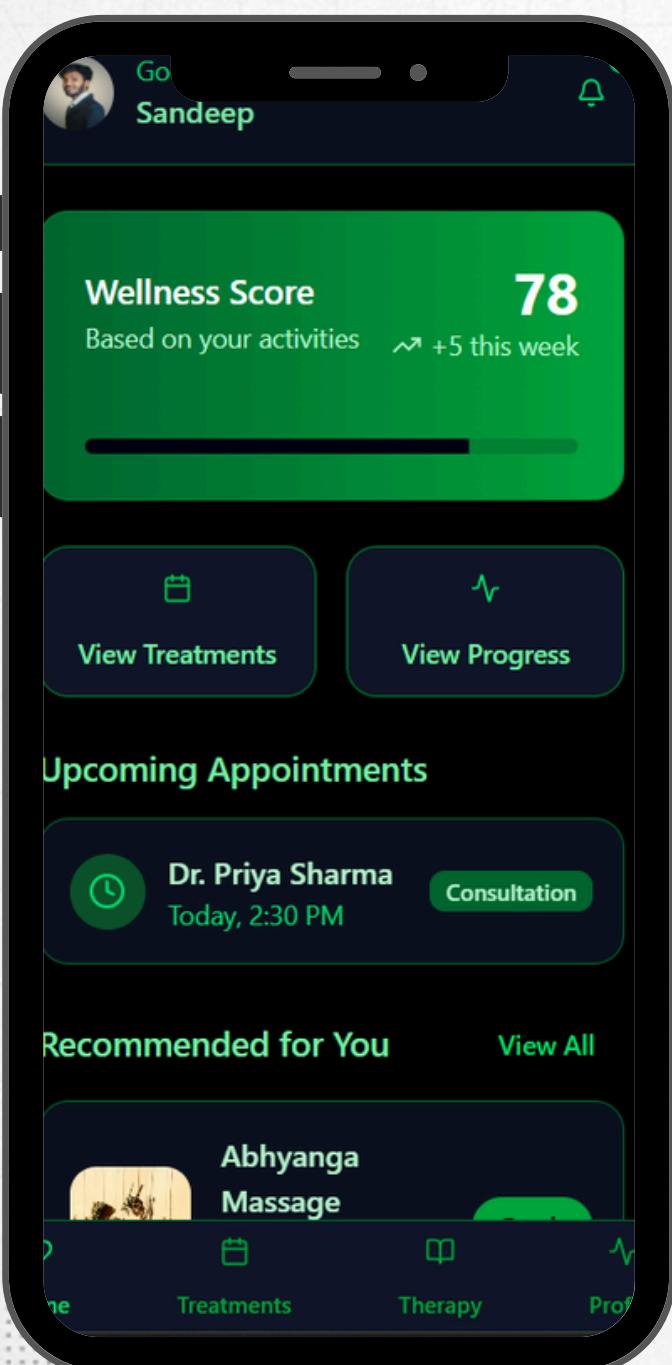


IDEA TITLE



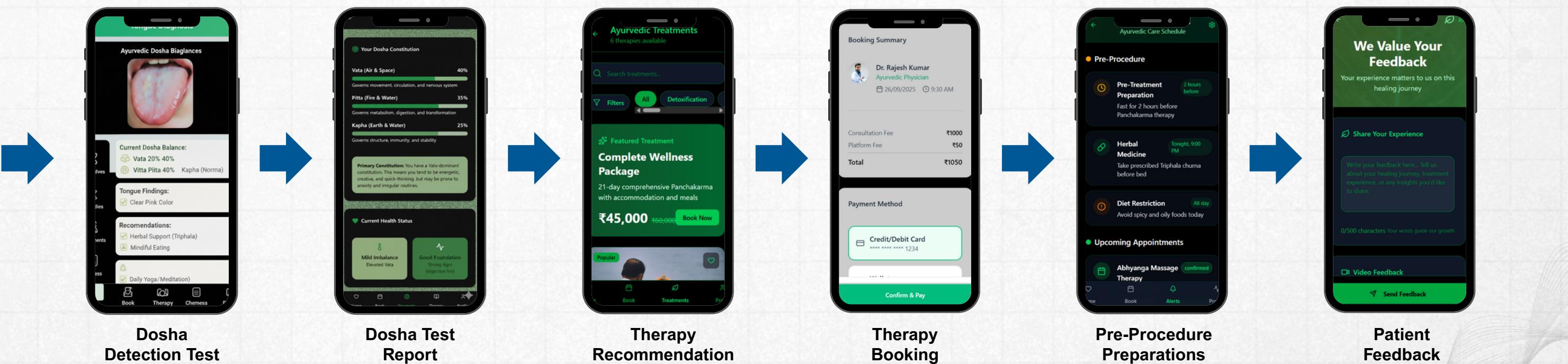
Problem - Panchakarma **lacks a dedicated digital system**, making therapy scheduling and patient management **inefficient and inconsistent**.

Solution - To develop an **AI-powered platform** that manages Panchakarma sessions, delivers timely alerts, and provides real-time therapy updates for patients and therapists.



How it addresses the problem ?

- Automated bookings to **save time and prevent conflicts**.
- Pre and post-treatment **alerts** for patient readiness.
- Track progress with measurable **milestones**.
- Collect **feedback** to **improve** therapy plans.



Uniqueness (USP)



Therapy Suggestions



Smart Ayurveda Promoter



Automated Scheduling

Features

Adaptive Ayurveda

Progress Analytic

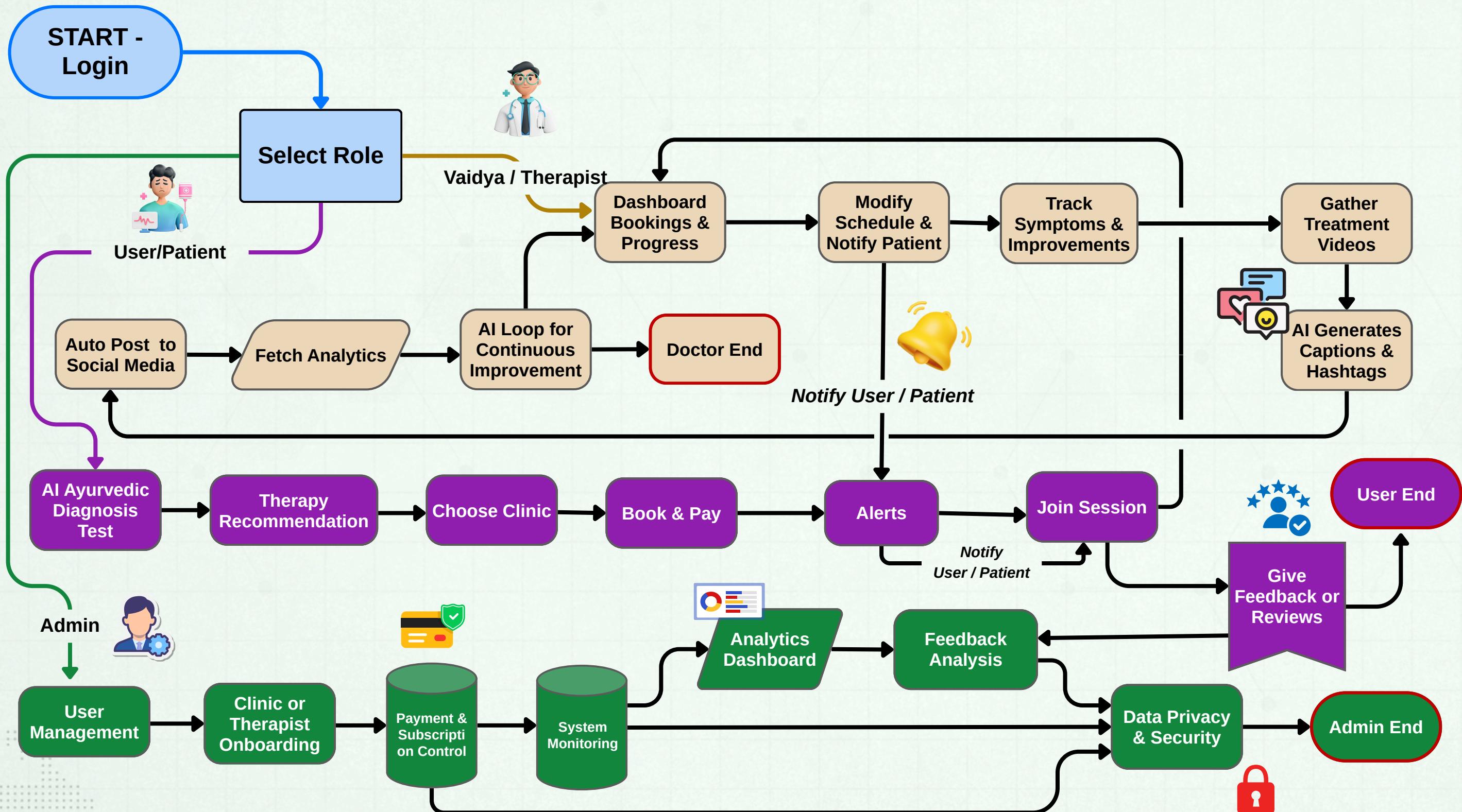
Guided Notifications

Therapy Optimization

Digital Records

TECHNICAL APPROACH

Software Flowchart



Tech Stack

Front End

  tailwindcss

  Flutter

Backend

  API Routes

Database

  NEON

Authentication and Notification

  Firebase E Mail Notification

AI/ML

 PyTorch  OpenCV

Data Visualisation

 Recharts

Deployment

  Vercel

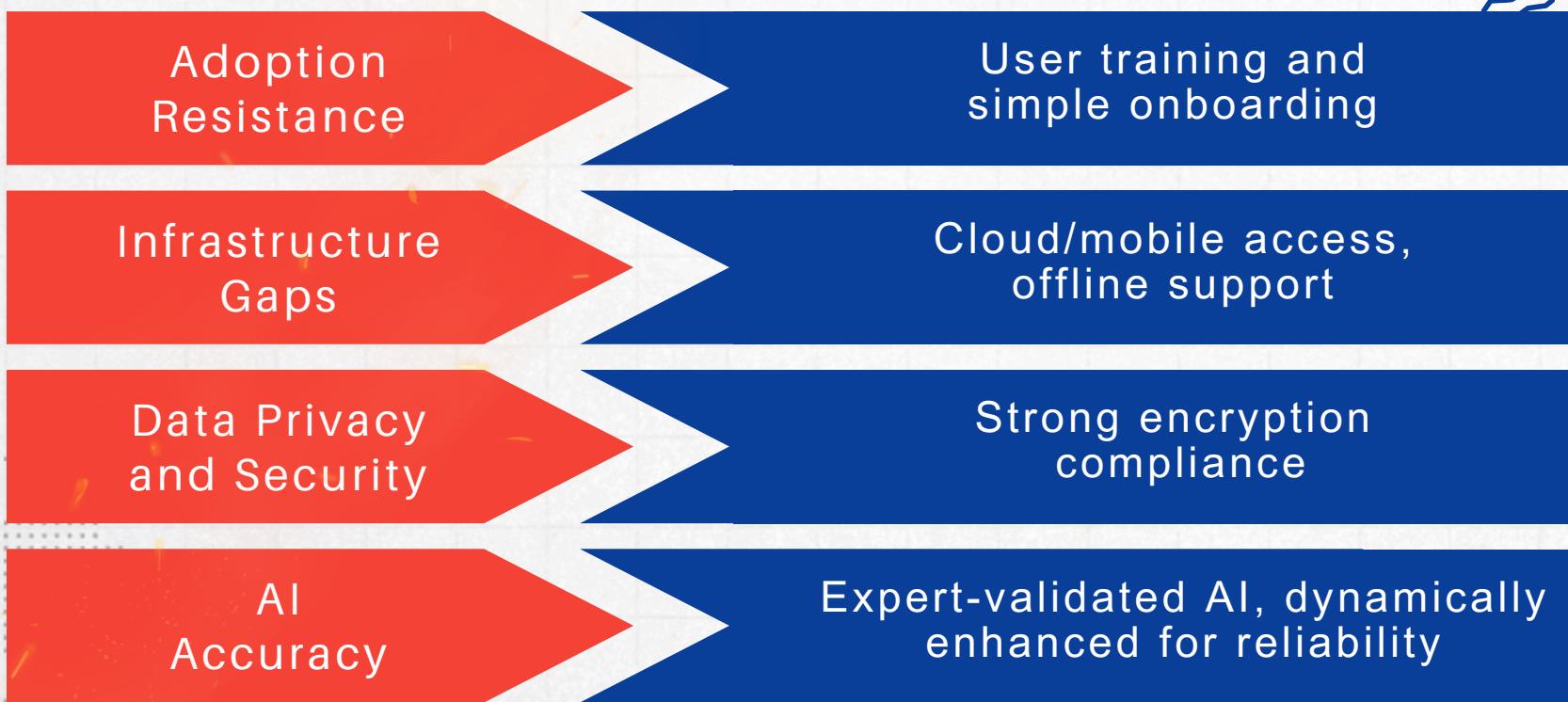
FEASIBILITY AND VIABILITY

FEASIBILITY

- Technical Feasibility:** Built on reliable frameworks like Next.js, PostgreSQL, and Firebase for robust and scalable development.
- Operational Feasibility:** Integrates smoothly with clinic workflows with minimal training needed.
- Legal Feasibility:** Compliant with healthcare data and AYUSH regulations.
- Economic Feasibility:** Reasonable development and operational costs offers cost savings to clinics.



Challenges

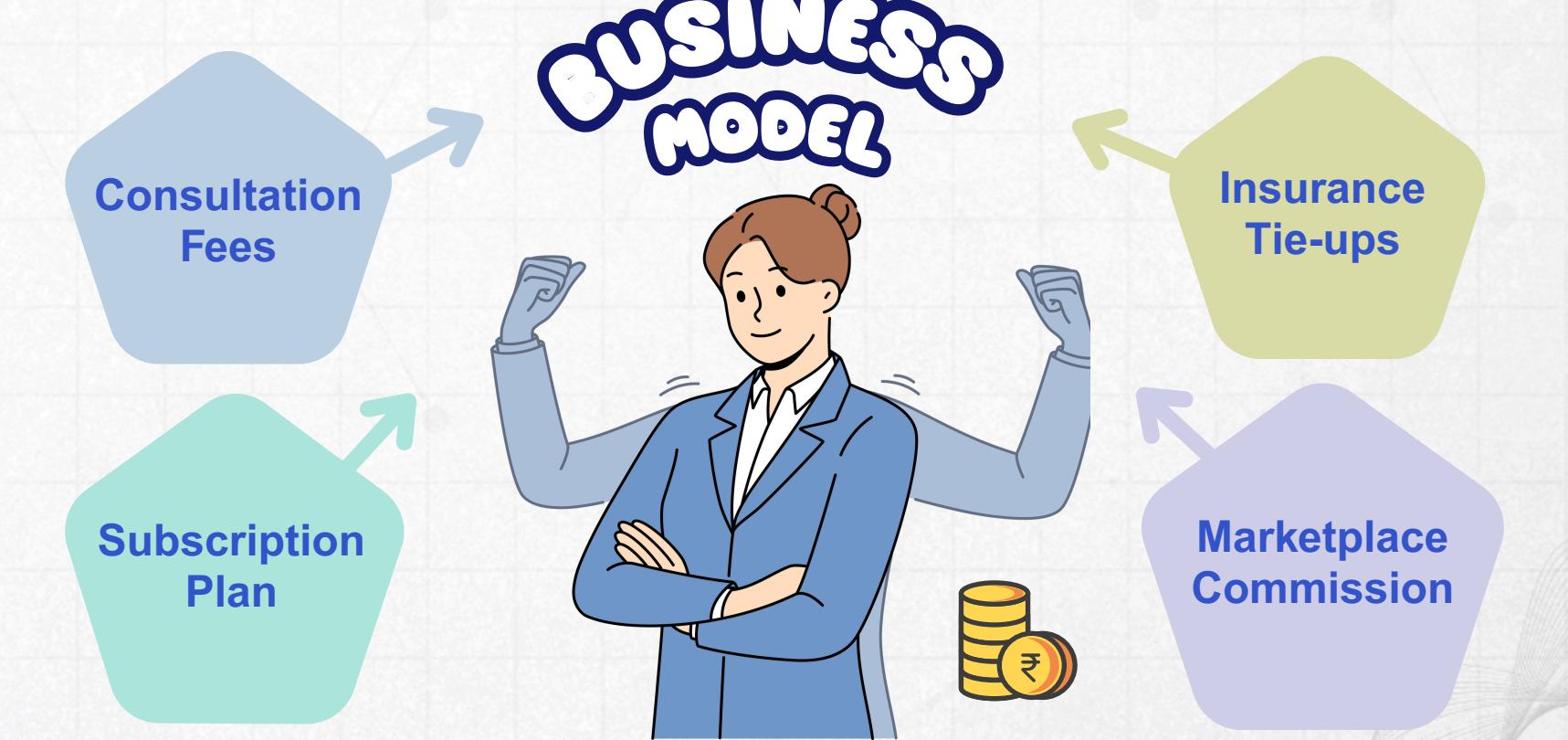


Strategies to Overcome



VIABILITY

- Scalability:** SaaS model supports growth from small clinics to large hospitals globally.
- Return on Investment:** Multiple revenue streams ensure strong and consistent ROI.
- Sustainability:** Regular updates and personalized features encourage long-term use.
- Market Demand:** Rising global interest in Ayurveda and Panchakarma drives strong demand for digital solutions.



IMPACT AND BENEFITS

Impact on Users

Patients

Better care, fewer scheduling errors, timely notifications.



Doctors/Practitioners

Optimized therapy planning, reduced admin burden.

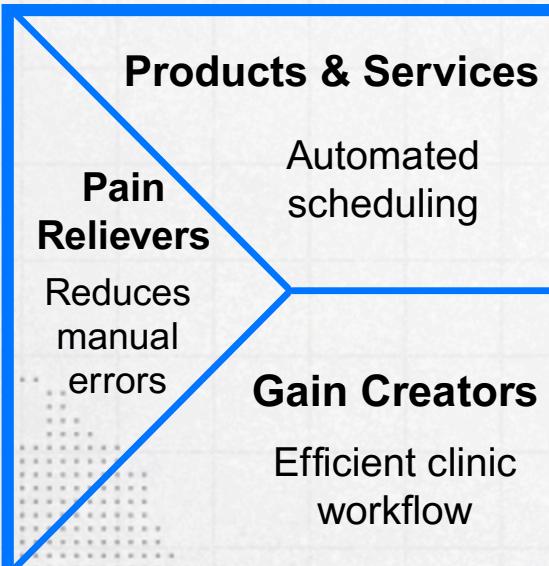


Clinics/Wellness Centers

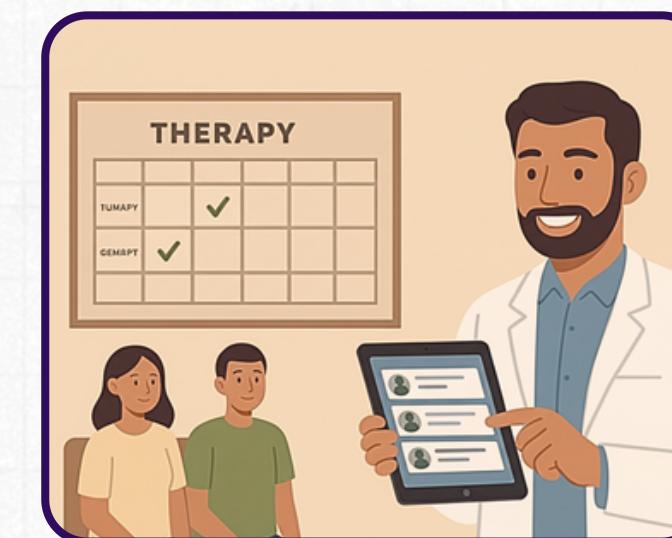
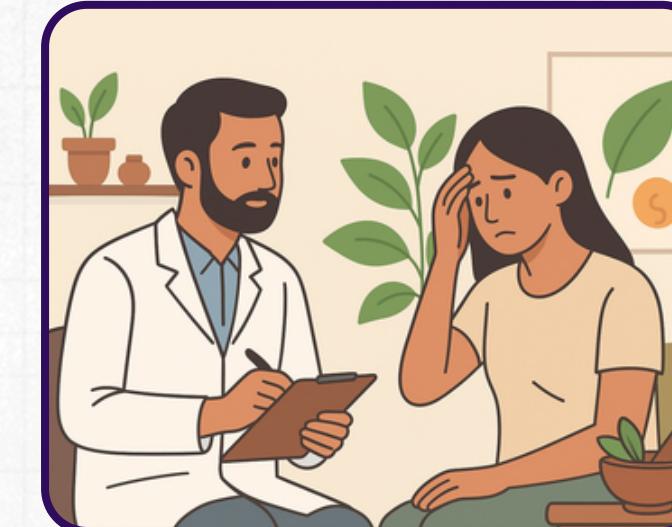
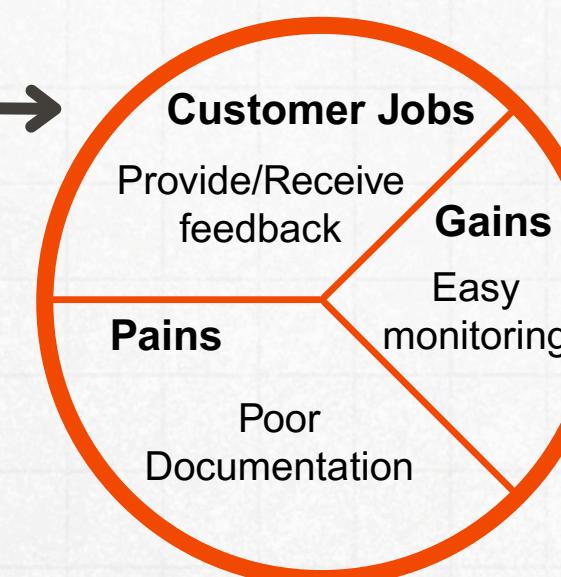
Improved resource utilization, higher patient satisfaction.



Value Proposition



Customer Segment



Social Benefits

- Validates Ayurveda with modern science.
- Provides convenient, at-home care.
- Empowers wellness with personalized AI.



Economic Benefits

- Cuts costs through automation.
- Adds revenue via e-commerce.
- Lowers marketing costs with AI.



Health Care Benefits

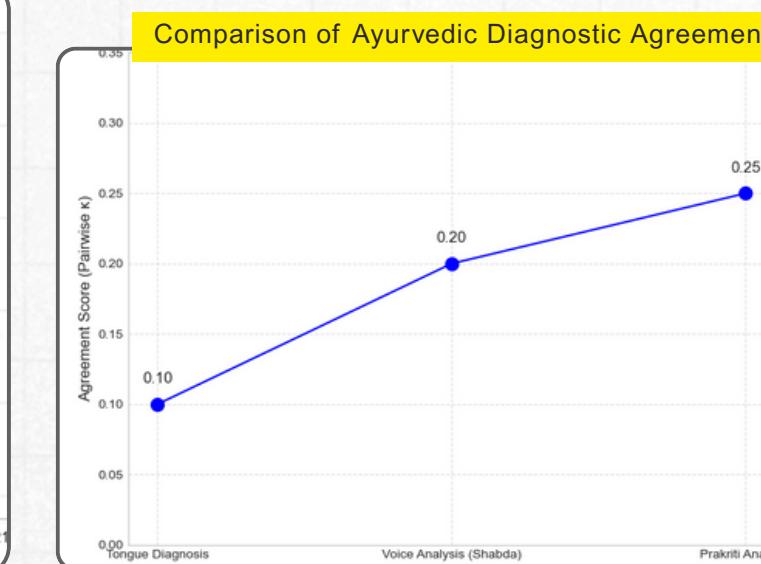
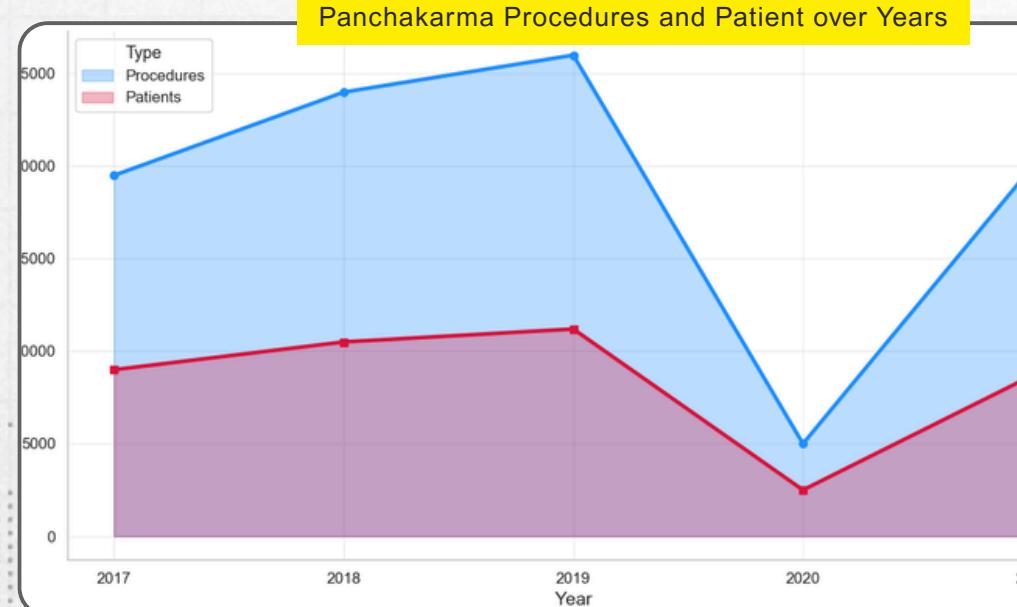
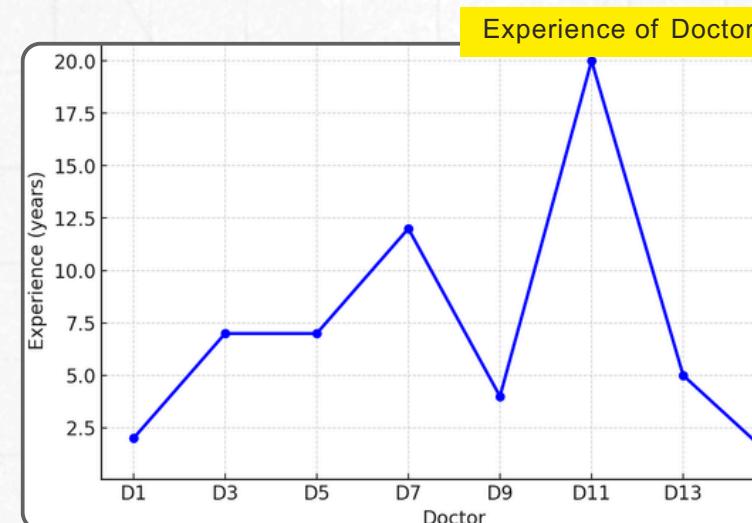
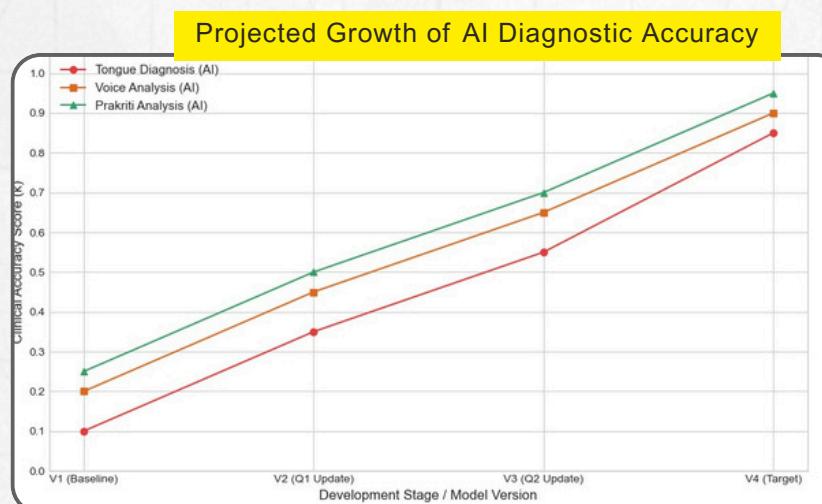
- Personalized care - AI-driven feedback.
- Real time monitoring - Better outcomes.
- Promotes lasting wellness.





RESEARCH

- Herbal Products Lead - 40%** market share driven by supplements, personal care & immunity boosters.
- Global Panchakarma market Growth-valued at \$9.4B (2023), projected to hit \$16B by 2026.** [Report](#)
- Proven Success Rate – Nearly 80–88%** of patients report significant relief and wellness benefits after Panchakarma therapies. [Report](#)



REFERENCES

- Marketing Strategies in Ayurveda: Challenges and Opportunities** – This paper explores how Ayurvedic products are marketed in modern times, analyzing challenges such as consumer perception, regulatory constraints, and digital marketing trends. [Elsevier – Journal of Ethnopharmacology](#).
- Prakriti Analysis Using AI** A review of methods integrating Ayurveda's Prakriti assessment with AI technologies. [ResearchGate](#)
- Critical Evaluation of Ayurvedic Shabda Pariksha (Auscultation) in Diagnosis of Diseases WSR to Computerized Sound Analysis** – Discusses traditional auscultation methods and their correlation with computerized sound analysis. [ResearchGate](#)
- Jivha Pariksha: An Ayurvedic Diagnostic Tool for Health Assessment** Explains how tongue examination helps in diagnosing health conditions by identifying dosha imbalances. [ResearchGate](#)
- Ministry of Ayush:** Annual budget is ₹3,712.59 crore (US\$440 million) [Wikipedia](#)
- A systematic review on Panchakarma-based Ayurveda treatment in Janu Sandhigata Vata.** Arya, R., Ghoshal, S., Pal, K., Mangal, G., & Dutta, A. (2023). International Journal of Ayurvedic Medicine, 14(1), 29–41. [Link to Article](#)
- The **Panchakarma statistics for the last five years** were compiled based on published studies: [Panchakarma Statistics](#)