

Industry Visit Report

Industry - Aegle hospital (Pune)

Institute - Vishwakarma Institute of Information Technology, Pune

Date of Visit - 31th March 2026

Time - 5:30 PM to 7:00 PM

Location - Aegle hospital (Pune)

Hospital Contact Person - Dr. Sanjay Agrawal

Attendees:

Faculty - Prof. Vilas Ghonge (CESE Eng.)

Students -

1. Omkar Babar
2. Pranita Kute
3. Vedant Wahile
4. Tejas Deore

Prototype Demo Highlights

Presented a patient-doctor web app prototype for diabetes/obesity management. Key features include:

- Patient dashboard: Report uploads, daily logs (sugar, weight, exercise, meals), trend insights, AI chatbot for queries, risk alerts (low/medium/high).
- Doctor dashboard: Patient history, trends, real-time alerts for high-risk cases, video call integration.
- Goal: Bridge gaps in daily monitoring between clinic visits (1-2 months apart).

Doctor's Feedback & Concerns

Dr. Sanjay Agarwal appreciated **trend analysis** for early detection (e.g., HbA1c rising from 5.7% to 6.1%, albumin/creatinine changes) to prevent complications.

- **Key objection:** Avoid doctor interface, doctors won't use 2 systems alongside existing CMS/CRS; risks medical liability for unacted alerts.
- **Recommendation:** Patient-only interface with self-alerts/education. Patient shows trends/app during visits; doctor reviews in own CMS.
- **Enhancements: Action Items & Next Steps**
- Pivot to **patient-centric app**: OCR for PDF reports → trends/charts; credible chatbot (link to Gemini/ChatGPT + Indian diet DB like Dr. Mohan's book).
- Future scope: Meal photo - calorie/volume analysis (customize for regional variations e.g., Maharashtrian poha).
- **Pilot plan:** Doctor to recommend app to patients; students refine prototype. Follow-up meeting to demo updated patient interface.

Objectives of the Visit

The primary objective of the hospital visit was to understand real-world challenges in managing metabolic diseases such as diabetes and obesity. The visit aimed to gather insights from medical professionals regarding:

- Current methods of patient monitoring
- Limitations of existing systems (CMS/EMR)
- Feasibility of integrating AI-based solutions
- Practical challenges faced by doctors and patients
- Validation of our proposed system idea

About the Hospital Interaction

The interaction was conducted with experienced medical professionals and faculty members. The discussion focused on evaluating our prototype idea related to continuous monitoring of patients using AI and data-driven insights.

The doctors provided practical feedback based on their daily clinical experience, highlighting both the strengths and limitations of our approach.

Discussion (Most Important Section)

3.1 Understanding the Problem

Doctors explained that:

- Patients visit hospitals at **irregular intervals (1–2 months)**
- There is **no continuous monitoring** between visits
- Doctors often miss **trend-based changes** in patient health

3.2 Positive Feedback on Our Idea

The doctors appreciated the concept of:

- Tracking patient data over time
- Identifying trends early
- Helping in **early intervention**

