



Department of Electronics
and Communication
Engineering

Digital Sathi: A hands-on tool to guide novice PC users

TEAM - 05

Chitphal Naik
MUR2501672

Nitin Chaturvedi
MUR2501549

Yash Kumar
MUR2501011


Problem Statement

Many adults struggle with basic PC use due to lack of simple, local-language guides.

Solution Idea

A simple, step-by-step PC learning website in Rajasthani, with visuals and a voice assistant, helping beginners learn keyboard, Word, Excel, Powerpoint and tasks easily.

It's unique because it teaches computer skills in Rajasthani with visuals and voice help, making digital learning easy for adults who struggle with English or complex tech terms.



Overview of chosen Technologies

| Layer | Technology | Purpose |
|--------------|----------------|---|
| Frontend | HTML, CSS, JS | Build user interface, show tutorials & visuals |
| Backend | Python (Flask) | Handle user requests, manage lessons & data |
| Database | MySQL | Store users, progress, and multilingual content |
| AI Assistant | Gemini API | Provide instant voice/text help in Rajasthani |
| Localization | JSON (i18n) | Support English & Rajasthani translations |

Conclusion and Future Scope



Expected Outcome

- Adults gain confidence using computers independently.
- Teachers can run digital literacy classes easily.
- More people access online services and jobs through basic PC skills.



Scalability

- Add more Indian languages (Hindi, Gujarati, Marathi, etc.).
- Expand lessons to internet use, email, and digital safety.
- Host on cloud servers for large-scale access (e.g., AWS, Azure).
- Integrate mobile app version for rural learners.



Next Steps

- Develop full lesson modules for Word, Excel, and PowerPoint.
- Connect real Gemini API for live voice support.
- Test with local adult learners and gather feedback.
- Partner with schools or NGOs to expand outreach.