

# Prasanna Pandharikar

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## EDUCATION

### Sardar Patel Institute of Technology

*B.Tech in Electronics & Telecommunication (GPA: 8.34/10) | Minor in Computer Engineering*

Mumbai, India

Aug. 2022 – May 2026

## EXPERIENCE

### Machine Learning Intern

Jan. 2026 – Present

*edept*

Mumbai, India

- Engineered an automated quiz generation pipeline utilizing LLMs to dynamically compile, validate, and serve custom STEM evaluations based on syllabus topics.
- Architected an adaptive learning platform that processes real-time student performance telemetry to dynamically personalize study paths and index modular lessons.
- Designed the Sophos Engine, a context-aware lecture script generator for professors that processes complete course syllabi to draft structured lesson material.

### Hackathon Problem Setter & Curriculum Designer

Aug. 2025 – Dec. 2025

*edept*

Mumbai, India

- Designed DSA problem statements mapped to progressive skill belts, covering data structures, algorithms, and system-design challenges of varying difficulty.
- Automated the end-to-end pipeline of pushing finalized problem statements to GitHub, syncing metadata to tracking sheets, and maintaining a live leaderboard dashboard.
- Authored original, open-ended hackathon problem statements emphasizing real-world problem solving over pattern-matching, driving deeper critical thinking among participants.

## PROJECTS

### ObservoAI | *FastAPI, Python, ML Anomaly Detection, OpenTelemetry, Next.js, Prometheus, Grafana* | [Github](#) | [Demo](#) March 2025

- Architected a high-throughput AI observability watchdog using OpenTelemetry to ingest and visualize 10K+ telemetry streams/sec under 250ms latency.
- Designed a multi-model 3-tier ML anomaly detection pipeline (LSTM Autoencoders, Isolation Forests) with FastAPI, achieving 98.4% diagnostic precision.
- Engineered a low-latency conversational AI voice agent allowing on-call engineers to verbally query real-time system state and trigger rollback scripts.

### AKSHAR | *Next.js, Firebase, TypeScript, TailwindCSS, Framer Motion* | [Github](#) | [Live](#)

Jan. 2026

- Architected a high-concurrency multiplayer typing racer with sub-100ms state synchronization across concurrent player lobbies using distributed state machine loops.
- Engineered a tactical capability engine featuring 8 unique Indian operatives with passive protocols and active sabotage payloads synced via atomic transitions.
- Designed a server-stamped synchronization protocol using optimistic local progression to eliminate network jitter and resolve concurrent state race conditions.

### MyBuddy | *React, Django REST API, PostgreSQL, LangChain, RAG* | [Github](#)

May 2025

- Engineered an interactive, multi-user AI study dashboard using LangChain and RAG to dynamically parse, chunk, and index academic reference material.
- Architected a scalable Django REST API with PostgreSQL indexing to compile and distribute custom evaluations under high concurrent student loads.
- Implemented an analytics dashboard with interactive metrics tracking student learning velocity and diagnostic weak-point reports.

## LEADERSHIP EXPERIENCE

### Technical Head

Sep. 2024 – Sep. 2025

*WIE IEEE SPIT*

Mumbai, India

- Led technical initiatives and directed a developer team to organize hackathons and technical workshops for 150+ active participants.
- Developed a dedicated event management web application to streamline registration, scheduling, and real-time announcements.

### Head of Creatives

Sep. 2023 – Sep. 2024

*Oculus S.P.I.T.*

Mumbai, India

- Directed the creative design division, managing visual branding, promotional assets, and marketing layouts for Oculus SPIT.
- Leveraged Adobe Illustrator and Photoshop to produce high-fidelity design assets, driving student engagement across digital channels.

## ACHIEVEMENTS

**Winner (First Place):** Barclays Hack-O-Hire Hackathon 2025 (Developed ObservoAI, an AI-powered automated observability watchdog platform).

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Java, C++, C, SQL, HTML/CSS

**Frameworks:** Next.js, React, Node.js, Express, FastAPI, TailwindCSS

**Developer Tools:** Firebase, Firestore, RTDB, Git, Docker, Kubernetes, AWS, Prometheus, Grafana, OpenTelemetry, Vercel Edge