# Prakrati Pawar

*AI Engineer | Backend Developer | Full Stack (React) | Conversational AI*

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## PROFILE

AI Engineer and Backend Developer with 1.4+ years of experience at Jio Platforms, building production-grade conversational AI systems using Python, FastAPI, LLMs, STT/TTS, and cloud-native technologies. Experienced in developing scalable APIs, real-time voice assistants, and AI-powered automation systems. Strong background in system observability and full-stack development.

## PROFESSIONAL EXPERIENCE

**Software Development engineer**                              09/2024 – 12/2025 | Mumbai
*Jio platform limited*
- Built and maintained scalable Python backend services for AI-powered conversational and voice-based applications used across smart devices.
- Designed and integrated real-time Speech-to-Text (STT) and Text-to-Speech (TTS) pipelines enabling natural voice interactions with LLM-based systems.
- Developed a ChatGPT-like conversational web interface using React.js for AI testing and experimentation.
- Implemented AI-driven home automation solutions integrating LLMs, IoT devices, and voice assistants.
- Designed observability dashboards using SigNoz and SQL to monitor logs, latency, system health, and error rates.
- Optimized backend performance and API response times for real-time conversational workloads.

**Java Developer Intern**                                      09/2023 – 10/2023 | Remote
*Internpe*
- Built Java-based applications while learning object-oriented programming, data structures, and backend fundamentals.
- Implemented real-world programming assignments and mini-projects.

## PROJECTS

**Jio AI – Real-Time Conversational Assistant**
- Developed backend services for a real-time conversational AI assistant supporting voice-to-voice and text-to-text interactions.
- Integrated STT, TTS, and LLM pipelines for natural AI conversations.
- Enabled AI interactions across smart devices including headphones, speakers, glasses, and home automation systems.
- Built session management, conversation orchestration, and device communication services.
- Tech Stack: Python, FastAPI, LLMs, STT/TTS,Docker

**AI-Based Home Automation System**
- Built an AI-powered voice-controlled home automation system using LLMs and IoT integrations.
- Implemented backend APIs for controlling smart lights, appliances, and connected devices.
- Designed real-time communication services for reliable device automation.
- Tech Stack: Python, FastAPI, LLMs, IoT

**Campus Recruitment Management System**
- Developed a role-based web application to automate campus recruitment workflows.
- Built modules for students, recruiters, and administrators.
- Improved placement process efficiency through automation.
- Tech Stack: HTML, CSS, Bootstrap, PHP, SQL

## SKILLS

- Languages: Python, SQL, Java

- Backend: FastAPI, REST APIs, Microservices

- Frontend: React.js, HTML, CSS, Bootstrap

- AI & ML: LLMs, Conversational AI, Speech-to-Text (STT), Text-to-Speech (TTS)

- Databases: PostgreSQL, MySQL

- Core: DSA, System Design, API Design

- Cloud & DevOps: Docker

- Monitoring: SigNoz, Logging, Observability

## EDUCATION

**Masters of computer applications (MCA)**                    08/2022 – 06/2024
*Ajeenkya Dy Patil University*

**Bachelor of Science in Computer Science**                    08/2019 – 06/2022
*Shri Arihant College of Professional Education*

## CERTIFICATES

**Operating System**                          **DBMS**
Saylor                                        Scaler

**AWS Cloud Practitioner Essential**          **Cloud Computing and DevOps**
Coursera                                      Pregrad