

Arun Rajoriya

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PROFESSIONAL EXPERIENCE

MPSEDC (State IT Center)

Jan. 2026 – Mar. 2026

Full Stack Development Intern [[Live Dashboard](#)] [[Certificate](#)]

Bhopal, India

- Engineered a crime analytics dashboard using **FastAPI** and **SQLite**, processing over **10,000 records** and reducing manual report generation time by **40%**
- Developed an **AI chatbot using Retrieval-Augmented Generation (RAG)**, improving query relevance and reducing manual search effort by approximately **40%**
- Designed and optimized **REST APIs** with response times below **200 ms**, enabling low-latency communication between backend services and AI workflows

PROJECTS

AI-Powered Meeting Intelligence Platform | *Python, FastAPI, Groq, Whisper, LLMs, Render* [[Live Demo](#)]

- Architected and deployed a **meeting intelligence platform** that converts audio conversations into structured summaries, decisions, and actionable items
- Integrated **Whisper-based speech-to-text transcription** with Large Language Models (LLMs) for automated insight generation
- Built scalable **REST APIs using FastAPI** for meeting management, transcript storage, and contextual search
- Deployed the application on **Render** with optimized backend performance and API documentation using Swagger UI

PhishGuard AI: Phishing URL Detection | *Python, FastAPI, React, PostgreSQL, Redis, XGBoost* [[Live Demo](#)]

- Built a production-style **FastAPI REST API** for phishing URL detection, supporting synchronous and asynchronous scanning with **JWT authentication** and request tracing
- Trained and deployed a domain-generalized **XGBoost model** using **40 URL-derived features**, achieving **99.82% F1** and **99.86% ROC-AUC** on unseen-domain evaluation
- Integrated **PostgreSQL, Redis, and VirusTotal** for persistent scan history, caching, **30 requests/minute rate limiting**, and multi-layer threat intelligence with rule-based risk scoring
- Engineered reliability and security with **98 automated tests**, 10-second external API timeouts, security headers, and **10 concurrent scan validation**; deployed frontend on **Vercel** and backend using **Docker on Render**

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML5, CSS3

Backend: FastAPI, REST APIs, Node.js

Frontend: React.js, Tailwind CSS, Bootstrap

Databases: MySQL, MongoDB, SQLite

Tools: Git, GitHub, Docker, Swagger UI, VS Code, Render

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Software Engineering, API Development

EDUCATION

Technocrats Institute of Technology Excellence

2022 – 2026

Bachelor of Technology in Computer Science and Engineering (AI & ML)

Bhopal, India

* **CGPA:** 7.77 / 10