

# Akarashak Mishra

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## PROFESSIONAL SUMMARY

Results-driven Electronics Engineering student specializing in AI/ML development, data engineering, and full-stack software solutions. Skilled in designing and deploying intelligent systems using LangChain, FastAPI, and React.js, with expertise in building AI agents, RAG pipelines, and real-time computer vision applications. Proficient in cloud deployment, database optimization, and CI/CD automation. Proven ability to deliver scalable solutions that improve operational efficiency by 25% and reduce deployment cycles by 60%, with hands-on experience across supply chain optimization, intelligent code generation, and object detection systems.

## TECHNICAL SKILLS

**AI/ML:** LangChain, LangGraph, RAG, CrewAI, Agents, Bedrock, OpenAI, Pydantic Notify, OpenCV

**Frameworks:** FastAPI, React.js, Streamlit, TensorFlow, Docker

**Cloud/Deployment:** Vercel, Netlify, Railway, Render, AWS, GCP, Development, CI/CD

**Languages:** Python, JavaScript, C, C++, SQL, HTML, CSS

**Databases:** MongoDB, MySQL, PostgreSQL

**Tools:** Git, GitHub, Docker, VS Code, Postman

## PROJECTS

### SmartDrive AI - Supply Chain Management (2025)

*Technologies: LangChain, FastAPI, React.JS, MongoDB*

- Integrated LangChain AI agents to improve operational efficiency by 25%.
- Designed an Agentic AI of application features, implementing FastAPI to achieving 40.5% uptime.
- Delivered a scalable React dashboard optimizing freight and transport decision-making.

### Real-Time Object Detection System (2025)

*Technologies: Python, YOLOv4, OpenCV, FastAPI, Docker*

- Created a YOLOv4 model for high-accuracy, real-time object detection.
- Developed a FastAPI backend to process video streams (via OpenCV) and store detection in cloud server.
- Containerized the application and its dependencies using Docker for reproducible deployment.

### Auditive AI - Intelligent Code Generation (2024)

*Technologies: AI Agents, LangChain, RAG, CrewAI, OpenAI, Pinecone*

- Integrated the OpenAI API for intelligent debugging, reducing 50% summary.
- Built the e-commercial coding assistant (Next.js, FastAPI) to generate and manage code.
- Implemented CI/CD pipelines for automated deployment, reducing time by 60%.

## EDUCATION

### Institute of Engineering and Rural Technology (IERT), Prayagraj

Expected 2027

*Relevant Coursework: DSA, OOP, DBMS, Networks, Software Engineering , Electronics and Communication*

## EXPERIENCE

### Campus Ambassador

Aug 2024 – Oct 2025

IIT Delhi