

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

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

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

Databases: MongoDB, MySQL, PostgreSQL

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

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