

# SHUBHAM KUMAR

Gaya, Bihar, India

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## Professional Summary

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AI-Focused Full Stack Developer with expertise in building scalable web applications, LLM-integrated APIs, and AI-driven solutions. Proficient in FastAPI, LangChain, Spring Boot, and modern JavaScript frameworks. Proven track record in reducing API latency, deploying AI applications on AWS, and delivering production-grade features in Agile teams.

## Technical Skills

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**Languages:** Python, Java, JavaScript, SQL, NoSQL  
**AI/ML Tools:** FastAPI, LangChain, Hugging Face Transformers, LLM Integration, Redis, Pandas, NumPy  
**Backend:** Spring Boot, REST APIs, Microservices, Hibernate, Servlets, JSP  
**Frontend:** React.js, Next.js, HTML5, CSS3, Bootstrap, JavaScript  
**Databases:** MySQL, Oracle, Redis, MongoDB  
**DevOps/Cloud:** Docker, Kubernetes, AWS (EC2, S3), Jenkins Pipelines, Git, Postman, JUnit, Agile

## Professional Experience

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**AI Engineer** Current  
Mobiloitte

- Developed AI-powered APIs with FastAPI, JWT security, and Redis-based context, reducing response latency by 30%.
- Fine-tuned DistilBERT for multi-intent detection (88% accuracy), handling 500+ daily chatbot queries.
- Integrated LLMs via LangChain to enhance conversational AI features with prompt engineering.
- Delivered end-to-end deployments on AWS EC2 with Docker and automated Jenkins CI/CD pipelines.
- Collaborated cross-functionally with frontend (React.js) teams ensuring seamless AI feature integration.

**Full Stack Developer Intern** Dec 2024 – May 2025  
Ducat IT Academy, Noida

- Engineered enterprise web apps with Java, Spring Boot, and MySQL, delivering REST APIs and secure backend systems.
- Developed responsive front-end components with Bootstrap and JavaScript integrated with backend services.
- Participated in Agile sprints, feature testing, and code deployment workflows.

**Graduate Engineer Trainee (SAP-MM)** Jan 2023  
Star Engineering Pvt. Ltd.

- Supported SAP-MM configurations, procurement workflows, and inventory management systems.
- Assisted in seamless system integration and automation of supply chain operations.

Key Projects

AI Chatbot with LLM, Contextual Memory, and RBAC2024

FastAPI, LangChain, DistilBERT, Redis, JWT, AWS, React.js, Docker

- Developed a production-grade AI chatbot with 92% user satisfaction, enabling contextual multi-turn dialogues via Redis-based session management.
- Integrated LangChain for dynamic prompt generation, leveraging DistilBERT fine-tuned for multi-intent recognition (88% accuracy).
- Implemented Role-Based Access Control (RBAC) with JWT for secure API access across user and admin roles.
- Deployed containerized FastAPI services on AWS EC2 using Docker, enabling scalable and automated deployments.
- Integrated React.js frontend with backend APIs for real-time AI interactions and seamless UX.

Bookstore Management System2025

Java, Spring Boot, MySQL, JSP

- Built CRUD APIs for inventory and user management with secure authentication.
- Developed a responsive web interface, enhancing customer engagement.

Weather Forecasting Application2023

Node.js, OpenWeatherMap API, JavaScript

- Developed a real-time weather app with REST API integration and dynamic front-end updates.
- Enhanced forecasting accuracy with optimized API consumption and user-friendly design.

Education

B.Tech in Electronics and Computer Engineering2020 – 2024

Gandhi Engineering College, Bhubaneswar, Odisha

CGPA: 8.0/10

Intermediate (12<sup>th</sup> Grade)2018 – 2020

SPY College, Gaya, Bihar

Percentage: 73%

Certifications

- AI-Powered Web Apps
  - Java Programming — AICTE
- SQL Basics
  - Web Development