

# ABHISHEK KUMAR

## Python Full-Stack Developer | AI, ML & LLM Expert

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### Professional Summary

Python Full-Stack Developer with 2+ years of experience in designing and developing scalable web applications using Django, Node.js, and Flask. Expertise in AI/ML, with hands-on experience in building machine learning models and leveraging LLM (Large Language Models). Adept at creating efficient back-end services, optimizing database performance, and implementing CI/CD pipelines using Docker, Jenkins, and AWS. Strong problem-solving skills with a passion for developing innovative solutions in e-commerce and real-time systems.

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### TECHNICAL SKILLS

**Languages:** C, C++, Java, Python, TypeScript, JavaScript, SQL, MySQL, DSA

**Frontend:** HTML5, CSS3, React.js, Redux, React Native, Angular, Tailwind, Bootstrap

**Backend:** Python, Django, Node.js, Express.js, GraphQL, JWT, OAuth 2.0, Flask, FastAPI

**Databases:** SQL, MySQL, MongoDB, Redis, PostgreSQL

**AI/ML Tools:** TensorFlow, Keras, Scikit-Learn, GPT, LLM, Natural Language Processing (NLP)

**Deployment:** AWS, CI/CD, Jenkins, Docker, SNS, S3, EC2, DNS, Git, GitHub, Pipelines

**Tools:** Android Studio, Excel, Visual Studio, IntelliJ

**Python Libraries:** NumPy, Pandas, SQLAlchemy, Flask, SciPy

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### Software Developer | Ducat, Noida | Nov 2023 - Present

- Developed and maintained backend APIs using Django and Flask for AI/ML-based

applications, processing over 10,000 requests/min.

- Integrated GPT-based language models for customer interaction, increasing automation by 40%.
- Used Redis caching to reduce query response times by 50% in machine learning pipelines.
- Managed MySQL/PostgreSQL databases, handling over 1 million records, with optimizations improving execution time by 40%.
- Implemented CI/CD pipelines using Jenkins and Docker, ensuring rapid deployment

- Increased customer conversion rates by 15% through personalized product suggestions

### Software Developer | Opkey, Noida | Feb 2023 - Nov 2023

- Enhanced the UI for machine learning dashboards using React and Angular, boosting user engagement by 25%.
- Collaborated with AI/ML teams to integrate REST APIs, improving data retrieval for LLM models.
- Optimized front-end performance, reducing load times by 20%, improving user interaction on AI/ML-based applications.

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## EDUCATION

### **B.Tech in Computer Science and Engineering | IK Gujral Punjab Technical University, Jalandhar Punjab | 2019 - 2023**

Relevant Coursework: Operating Systems, Machine Learning, Advanced Data Structures, Data Mining, Natural Language Processing (NLP)

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### **E-shop WebApp | 2023**

- Full-stack AI-powered app with Django backend and React frontend, deployed on AWS with Docker.
- Integrated JWT-based authentication, PostgreSQL for data management, and GPT-based customer chatbots.
- Implemented Redis caching, improving response times and scalability, reducing server load by 30%.
- Achieved 99.9% uptime with robust CI/CD pipelines using Jenkins and Docker.

### **E-commerce Platform | 2022**

- Built with Flask and React, integrated Stripe for payments, and added AI-based recommendation systems.
- Deployed a machine learning-based recommendation system using collaborative filtering, enhancing user experience by 15%.
- Managed PostgreSQL databases, deployed via Docker and AWS EC2.
- Integrated GPT models for product recommendations, increasing conversion rates by 10%.

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## AWARDS AND CERTIFICATIONS

- **Java Full-Stack Certification - JSpiders, QSpiders.**
- **Machine Learning and Deep Learning Specialization - Coursera.**
- **AI/ML in Python Certification - Udemy (Completed)**