

Abhishek Kapoor

Artificial Intelligence & Machine Learning Engineer

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TECHNICAL SKILLS

Programming: Python, C++, Java, JavaScript, TypeScript

Frameworks & Libraries: React.js, Next.js, Node.js, Flask, Django, Express.js

AI/ML & LLM Tools: PyTorch, TensorFlow, Scikit-learn, LangChain, LangGraph, LangSmith, Hugging Face, OpenAI API, Pinecone, Neo4j, ChromaDB

Cloud & DevOps: Docker, AWS, GCP, Firebase, Vercel, Nginx, GitHub Actions (CI/CD)

Databases: MySQL, PostgreSQL, MongoDB, PrismaORM, AstraDB

Version Control & IDEs: Git, GitHub, Microsoft Visual Studio, Postman

Other Tools: Power BI, Figma, Cloudinary, Redis, Android Studio

Soft Skills: Analytical and Algorithmic Thinking, Creativity, Growth Mindset, Leadership, Collaboration, Effective Communication, Adaptability, Problem-Solving, Attention to Detail, Business Acumen

PROFESSIONAL SYNOPSIS

AI & LLM Engineer skilled in building scalable, cloud-native applications using **Python, C++, and LangChain**, with expertise in **Large Language Models (LLMs), Retrieval-Augmented Generation (RAG)**, and **AI-driven automation**. Passionate about creating intelligent, high-impact solutions that align with **Ansys part of Synopsys's mission of advancing technology innovation from silicon to systems**.

PROFESSIONAL EXPERIENCE

AI & Frontend Developer Intern | BW Tech Pvt. Ltd. | Oct 2024 – Dec 2024 | [App Link](#)

- Developed and integrated AI/LLM features in a React Native app using Python-based ML models, improving usability and prediction accuracy by 30%.
- Enabled natural language interaction via LangChain and RAG techniques, increasing feature adoption by 25%.
- Investigated and resolved defects in production, enhancing performance and stability by 20%.
- Implemented unit tests and usability analysis, ensuring 90% code coverage in Visual Studio with CI/CD on GitHub Actions.
- Collaborated across design and AI teams to meet cross-functional engineering objectives in agile sprints.

PROJECTS

DevOps Agent – Autonomous Deployment Assistant | In Progress | [Link](#)

- Developed an LLM-powered DevOps agent using LangGraph and LangSmith to automate deployments and configuration management of applications across AWS, GCP, and Docker, with Pinecone and Neo4j for vector retrieval and graph reasoning.
- Implemented unit testing, defect analysis, and performance optimisation to improve deployment reliability, software configuration and reduce latency by 40%.

DeepDSA – AI Technical Interview & Assessment Platform | Sep 2025 | [Link](#)

- Engineered a microservices-based AI interview platform using Redis, PostgreSQL, and NextJS, scalable to millions of concurrent users.
- Designed an AI interviewer (speech-to-text + LLM) for natural language technical interviews, code evaluation, and skill scoring, improving assessment efficiency by 65%.

Amazon ML Challenge – Product Price Prediction | Sep 2025 | [Link](#)

- Achieved an SMAPE score of 56, ranking in the top percentile by developing an ensemble model combining CNNs, DNNs, and Natural Language Processing models.
- Used Sentence Transformers, XGBoost, and multimodal feature fusion for accurate price predictions from product descriptions and images.

EDUCATION

Bachelor of Engineering in Computer Science in Artificial Intelligence

Chitkara University, Punjab, India

Aug 2023 – Jun 2027

CGPA: 9.84 / 10

Certifications: Google Cloud – Introduction to Generative AI | IBM Certified AI Agent Developer | AWS – Advanced DevOps Practices