

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