Harsh Jindal

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Education

University of Petroleum and Energy Studies (UPES), Dehradun *Jul 2022 – Jun 2026*
B.Tech in Computer Science and Engineering
Cloud Computing and Virtualization Technology *CGPA - 7.96*

Technical Skills

Programming: Python, Java, C++, JavaScript
Frameworks & Libraries: Flask, TensorFlow, OpenCV, LangChain, Node.js, Express.js, React.js, Next.js
Databases & Cloud: PostgreSQL, MySQL, Pinecone (Vector DB), AWS (EC2, S3, RDS, Lambda, ECR)
DevOps & Tools: Docker, Kubernetes, GitHub Actions (CI/CD), Git, Linux
APIs & Platforms: Google Gemini API, Clerk (Auth), Vercel (Deployment)

Experience

IoT & Cloud Engineering Intern *May 2025 – Jul 2025*
IBM

- Engineered a scalable Industrial IoT anomaly detection system on AWS using IoT Core, Lambda, SNS, and S3, processing real-time sensor data with sub-second latency.
- Boosted fault detection accuracy by 15% by optimizing an Isolation Forest model, reducing false positives in live monitoring.

Cloud & Data Analytics Intern *Jun 2024 – Jul 2024*
Voestalpine VAE VKN India Pvt. Ltd., Sonepat

- Implemented a real-time sensor data pipeline with AWS IoT Core and Kinesis, supporting predictive maintenance and cutting machinery downtime by 8%.
- Automated data ingestion and analytics with S3, Lambda, and RDS, improving production monitoring efficiency and reporting speed by 20%.

Projects

Healthcare Assistant with RAG, LangChain, Pinecone & AWS — Python, Flask, Docker, AWS (EC2, ECR), LangChain, Pinecone, Groq LLMs, GitHub Actions

- Developed a full-stack **medical chatbot** using LangChain, Pinecone, and Groq LLMs, integrated into a Flask web application for real-time query handling.
- Implemented a **document ingestion and vector embedding pipeline** for efficient semantic retrieval from large medical datasets.
- Built a **Retrieval-Augmented Generation (RAG) flow** to enhance chatbot accuracy by combining vector store context with LLM outputs.
- Containerized the application with Docker and deployed on AWS EC2, integrating CI/CD using GitHub Actions.

InterviewGenie — Next.js, React, Node.js, PostgreSQL, Google Gemini API, Clerk, Vercel

- Developed an AI mock interview platform with live webcam/microphone simulations & role-specific question sets.
- Integrated MFA and JWT authentication via Clerk and deployed on Vercel with PostgreSQL, achieving 99.9% uptime in testing.
- Delivered real-time AI feedback and performance dashboards, increasing user confidence and interview readiness scores by 25%.

SmileWell — Python, TensorFlow, OpenCV, Flask, Docker, Kubernetes

- Created a mental wellness platform with real-time facial emotion & smile detection (90%+ accuracy) powered by CNN-based models.
- Added interactive dashboards, mood tracking, and gamification features (quizzes, motivational boards), boosting user engagement by 40% in trials.
- Deployed microservices architecture with Docker and Kubernetes,with secure authentication and horizontal scalability.

Courses and Certifications

AWS Academy Cloud Architecting

AWS Academy Graduate - AWS Academy Cloud Security Foundations

Cloud Web Application Builder

Data Structures & Algorithms Essentials