

# Divyam Garg

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## Education

University of Petroleum and Energy Studies (UPES), Dehradun

Aug 2022 – May 2026

B.Tech in Computer Science and Engineering

Specialization: Cloud Computing and Virtualization Technology

CGPA: 7.57

## Technical Skills

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

**Frameworks & Libraries:** Flask, TensorFlow, OpenCV, LangChain, Node.js, Express.js, React.js, Next.js

**Cloud Platforms:** AWS (EC2, S3, RDS, Lambda, ECR), Microsoft Azure

**Databases:** PostgreSQL, MySQL, Pinecone (Vector DB)

**DevOps & Tools:** Docker, Kubernetes, GitHub Actions (CI/CD), Git, Linux

**APIs & Platforms:** Google Gemini API, Clerk (Auth), Vercel (Deployment)

## Experience

Cloud Infrastructure and Security Intern

May 2025 – Jul 2025

Celebal Technologies — Azure-focused Cloud & Data Solutions

- Implemented Azure governance, networking, and monitoring policies, strengthening compliance and workload security.
- Configured **Microsoft Entra ID (Azure AD)** with MFA and SSPR, securing authentication for 500+ users.
- Orchestrated** infrastructure provisioning using ARM templates and scripts, reducing deployment time by 25%.

Cloud Engineer Intern

May 2024 – Jul 2024

Tech Spikes LLP — AWS Infrastructure Solutions

- Designed and deployed scalable AWS infrastructure (**EC2, RDS, S3**), lowering operational costs by 15%.
- Optimized** monitoring and provisioning with Iaas tools, improving uptime by 10% and minimizing downtime.
- Streamlined** deployment pipelines, enabling efficient resource utilization for client workloads.

## 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.

**Wildlife Research Datasheet Manager** — React.js, Node.js, MySQL, Chart.js, AWS (EC2, RDS, S3)

- Built a **cloud-based platform** for wildlife researchers to upload, manage, and analyze field data securely.
- Implemented **JWT authentication & role-based access control (RBAC)** for admins, researchers, and reviewers.
- Developed visualization dashboards to provide actionable insights into species population and environmental data.
- Designed scalable architecture with React.js frontend, Node.js/Express backend, and MySQL database; deployed on AWS.

**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%.

## Certifications

- AWS Academy Cloud Architecting
- AWS Academy Introduction to Cloud (Semester 1)
- AWS Academy Introduction to Cloud (Semester 2)
- AWS Academy Cloud Security Foundations