

Debarpita Dutta

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EDUCATION

Vellore Institute of Technology

[Bhopal, India]

B. Tech CSE [Specialization in Cloud Computing and Technology]

Year: 4th Year | Graduation year: 2026[final semester on-going]

Relevant Courses under VIT:

Computer Networking, AIML, Cloud Data and security Management, Fog and edge Computing, GPFS, Parallel and distributed Algorithms, and High-Performance Computing[Experience with VAST and Weka storage solutions]

Academic Projects under VIT:

- Secure File Storage Using Hybrid Cryptography
- Smart Traffic Control System- Traffic Genie

KEY SKILLS

- Cloud Platforms & Services:** AWS (EC2, EBS, S3, Lambda, Elastic Beanstalk, ECS, EKS, VPC, CloudFront, RDS, IAM, Athena, ELB, Data Lake, Guard Duty, AWS Shield, KMS, CloudTrail, CloudHSM, Inspector). Designed & deployed **secure, scalable, multi-tier cloud architectures** using AWS IAM, VPC, and security groups.
- DevOps & Infrastructure as Code (IaC):** CI/CD Pipelines, Docker, Kubernetes, Terraform, Ansible, Jenkins, GitHub Actions, Infrastructure Automation. Built and optimized CI/CD workflows, reducing deployment time by 40% and failure rate by 30%.
- Programming Languages:** Java (DSA), Golang (Learning), C++ (OOP), Python (Automation & Bash Scripting). Applied to automation tools, data scraping, and log analysis.
- Databases:** MySQL, PostgreSQL, RDBMS, NoSQL (MongoDB, DynamoDB).
- Web Development:** HTML, CSS, JavaScript, MERN Stack, Next.js, TypeScript, Stripe API integration.
- Web Services:** RESTful APIs, Microservices
- Security & Identity:** OAuth 2.0, OIDC, SAML, Kerberos
- Tools & Platforms:** Git, Git Bash, PowerShell, SSH, Agile/Scrum methodologies, Linux/Unix systems, TCP/IP networking.

CERTIFICATIONS: <https://github.com/devv712/Certifications>

- AWS Certified Cloud Practitioner (2024)**
- AWS Certified Solutions Architect – Associate (2025)**
- AWS Certified DevOps Engineer(2025)**
- Software Engineering Job Simulation – JP Morgan Chase & Co. (Forage)**
- AWS Solutions Architecture Job Simulation – Forage**
- Google Cloud AI/ML Badges:** Prompt Design in Vertex AI, Build Real-World AI Applications with Gemini & Imagen, GenAI App Development with Streamlit.

EXPERIENCE

CodeKloud - Cloud Intern

[Sept 2024 – Dec 2024]

- Deployed and tested AI lab infrastructure across 5+ cloud environments, resulting in a **30% boost in platform stability** and uniform deployment through version control for 10+ environments.
- Standardized and QA-tested **50+ modules**, cutting editorial backlog by **25%** and reducing learner support queries by **20%** through improved readability.
- Streamlined CI/CD workflows and DevOps automation, **reducing release time by 40%**, **cutting deployment issues by 30%**, and enhancing build efficiency.
- Refactored UI and learning content structure, increasing lab completion rates by **12%** and boosting course engagement by **15%**.

PROJECT WORKS: <https://github.com/devv712>

- Ather Mind- Built a full-stack AI SaaS Platform with Next.js 14, TypeScript, and Stripe. [Project Link](#)
- Real-Time Price Tracking: concept of web scraping and built a Next.js 14 eCommerce price tracker with the help of data scraping, shell, cron jobs, and sending emails. [Project Link](#)
- SSH Log Analysis for Brute-Force Attack Detection: A Python-based tool for analyzing SSH authentication logs to detect and report potential brute-force attacks. [Project Link](#)
- Scalable Multi-Cloud CI/CD Pipeline with Canary Deployments, now enhanced with a Streamlit-based DevOps Monitoring Dashboard [Project Link](#)
- Core- Scheduler: Kernel-Like Process Scheduler Simulator: RR, Priority, and FCFS scheduling with starvation prevention [Project Link](#)
- Kernel-Driver: Linux Character Device Driver Simulator: supports file operations for kernel–user space communication. [Project Link](#)

ACHIEVEMENTS

- Member of Google Developer Student Club (GDSC)
- Participant, Google 2025 GenAI Exchange Program
- Participant, Google Gen AI Hackathon (APAC Region) – Team of 5
- Solved more than 500+ problems of Data Structures and Algorithms on GFG and LeetCode**
- Competitor, ServiceNow Hackathon for Women

RESEARCH PAPERS

- “Secure File Storage Using Hybrid Cryptography “:-[Link](#)
- “Federated Learning: Privacy-Preserving Machine Learning Across Decentralized Devices with Insights from the GDPR Perspective “:- [Link](#)