

# Debarpita Dutta

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## EDUCATION

### Vellore Institute of Technology

[Bhopal, India]

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

Year: 4<sup>th</sup> Year.

Graduation year: (Estimated) Oct 2026

#### Academic Projects under VIT:

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

#### 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]

Core Competencies: AWS | CI/CD | Docker | Cloud Security | DevOps | Golang | Full Stack Development | Next.js | Distributed Systems | TCP/IP

## EXPERIENCE

### KodeKloud - 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%**.

## 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

## KEY SKILLS

- Practical knowledge about AWS Services:** EC2, EBS, S3, AWS Lambda, AWS Elastic Beanstalk, ECS, EKS, AWS VPC, AWS CloudFront, RDS, IAM, Athena, ELB, Data Lake. **Designed and deployed secure cloud infrastructure using AWS IAM, VPC, and security groups for multiple real-world projects.**
- Experience proposing and implementing Infrastructure as Code (IaC) practices from the ground up. Skills in managing hybrid cloud/on-premises environments.
- DevOps:** CI/CD Pipelines, Automated Deployment, Docker, Kubernetes, Terraform, Jenkins. **Applied skills in designing scalable cloud infrastructure, automating CI/CD pipelines, and deploying applications using AWS, Kubernetes, and Terraform. Resolved CI/CD pipeline failures by automating dependency version checks, reducing downtime by 20%.**
- Programming: **Java (Data Structures and Algorithms), Golang(ongoing), C++ (OOPs), Python (Bash Scripting)** – used in diverse projects such as log analysis, automation, and data scraping. Regularly solve real-world problems by integrating automation and efficiency-driven design, with a strong commitment to continuous learning and impactful delivery of cloud-based solutions.
- Databases:** NoSQL, MySQL, RDBMS, PostgreSQL
- Web Development: HTML, CSS, JavaScript, MERN Stack, Next.js, Stripe
- Tools:** Git (Version Control), Git Bash (Command Line Interface), PowerShell, SSH client. Collaborated in a team using Agile methodology with version control (Git)
- Operating Systems:** Experience working with Unix/Linux environments, distributed systems, machine learning, information retrieval, and TCP/IP.

### BADGES & CERTIFICATIONS: <https://github.com/devv712/Certifications>

- AWS: Certified Cloud Practitioner 2024, Certified Solution Architect Associate 2025
- Licences & Certifications: Software Engineering Job Simulation by JP Morgan Chase and Co.
- AWS Solutions Architecture Job Simulation By Forage
- Earned AIML Badges (by Google Cloud): **Prompt Design in Vertex AI Skill Badge, Build Real World AI Applications with Gemini and Imagen Skill Badge**

### 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](#)
- Smart Shop- Generative AI Shopping Assistant [Project Link](#)

## 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](#)