

Debarpita Dutta

Kolkata, India | devrpita79@gmail.com | +91-8894845276 | <https://www.linkedin.com/in/debarpita-dutta-0a8bb8262/>

Professional Summary

Passionate and results-driven **Cloud Computing and DevOps Engineer** with a strong foundation in **AI/ML, Cybersecurity, and Full Stack Development**. Adept at architecting scalable cloud solutions, implementing **CI/CD pipelines**, and optimizing infrastructure using **AWS, Kubernetes, and automation tools**. Experienced in **machine learning workflows** and **high-performance computing**, with a keen interest in driving efficiency through technology. A proactive problem solver with a continuous learning mindset, eager to contribute expertise in **cloud security, distributed computing, and intelligent automation** to build cutting-edge solutions.

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

Education

Vellore Institute of Technology

[Bhopal, India]

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

Year: 3rd Year.

CGPA: 8.0/10

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]

Experience

KodeKloud - Cloud Intern

[Sept 2024 – Dec 2024]

- Assisted in deploying and testing cloud-based AI lab infrastructure across multiple environments, enhancing platform stability.
- Maintained consistency across modules to improve readability.
- Improved automation scripts and deployment pipelines, boosting course engagement and reducing setup issues by 15%.
- Collaborated with DevOps team to optimize lab build tools and streamline CI/CD processes for faster release cycles..
- Enhanced readability and learning outcomes by refining course content and UI flow.
- Ensured consistent configuration management and enhanced user experience across multi-cloud lab environments.
- Published 30+ course modules, reducing editorial backlog by 25%.

Leadership & Achievements

- Member of Google Developer Student Club (GDSC)
- Participant, Google 2025 GenAI Exchange Program
- Finalist, Google Gen AI Hackathon (APAC Region) – Team of 5
- Gold Medallist, Maharashtra Government – Recognized for an awareness project on women's safety and crime prevention.
- National-Level Spell Bee Qualifier
- Solved more than 500+ problems of Data Structures and Algorithms on GFG and LeetCode**
- Competitor, ServiceNow Hackathon for Women

Technical 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.
- 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
- Programming: **Java (Data Structures and Algorithms), Golang(ongoing), C++ (OOPs), Python (Bash Scripting)-Versatile, Enthusiastic, Problem solver in a fast-paced environment. Ability to collaborate, test, deploy, and maintain software solutions. Ability to work in a fast-paced, dynamic environment.**
- Developed scalable systems for secure file storage using distributed computing principles**
- Databases:** NoSQL, MySQL, RDBMS, PostgreSQL
- Ability to **interpret data, diagnose problems**, and create action plans
- REST APIs, Unit Testing, Scalability, Debugging, System Design**
- Machine Learning:** Built ML models using Kaggle datasets [preliminary]
- 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 Work: <https://github.com/devv712>

- Ather Mind- Built a full-stack AI SaaS Platform with Next.js 14, TypeScript, and Stripe.
- Savvy Tracker: 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.
- 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.
- Smart Shop- Generative AI Shopping Assistant

Research Papers

- "Secure File Storage Using Hybrid Cryptography ":-Published at IJARSCT
- "Federated Learning: Privacy-Preserving Machine Learning Across Decentralized Devices with Insights from the GDPR Perspective ":- Published at IJCRT