

Debarpita Dutta

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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.

Education

Vellore Institute of Technology

[Bhopal, India]

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

Year: 3rd Year. **[8.0 CGPA]**

Graduation year: (Estimated) Oct 2026

Projects under VIT:

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

Relevant Courses under VIT:

Computer Networking, AI & Machine Learning, Cloud Data & Security Management, Fog & Edge Computing, Parallel & Distributed Algorithms, High-Performance Computing.

Experience

KodeKloud - Content Intern

[Sept 2024 – Dec 2024]

- Reviewed 50+ course modules before publication to ensure accuracy and clarity.
- Assisted in editorial tasks, maintaining consistency across learning materials.
- Optimized AI lab build tools, improving course engagement by 15%.
- Cleaned and refined educational materials for a better user experience.
- Assisted in publishing learning resources on the platform.

Leadership & Activities

- Member, of Google Developer Student Club (GDSC)
- Participant, Google 2023 Winterfest
- Finalist, Google Gen AI Hackathon (APAC Region) – Team of 5
- AWS AI/ML Summer School Exam
- State-Level Hockey Captain
- Gold Medallist, Maharashtra Government – Recognized for an awareness project on women's safety and crime prevention.
- National-Level Spell Bee Qualifier
- Participant, Deloitte Hack Plosion
- Competitor, ServiceNow Hackathon for Women

Skills & Interests

Technical:

- 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
- AWS Services: EC2, EBS, S3, AWS Lambda, AWS Elastic Beanstalk, ECS, EKS, AWS VPC, AWS CloudFront, RDS, IAM, Athena, ELB, DataLake.
- DevOps: CI/CD Pipelines, Docker, Kubernetes, Terraform, Jenkins (Ongoing)
- Programming: Java (DSA, Dynamic Programming)-**problem-solving** and **analytical** skills, Golang(ongoing), C++ (OOPs), Python (Basic)-
- Web Development: HTML, CSS, JavaScript, MERN Stack, Next.js, Stripe
- Databases: NoSQL, MySQL, RDBMS, PostgreSQL
- Ability to **interpret data, diagnose problems**, and create action plans
- Machine Learning: Built ML models using Kaggle datasets [preliminary]
- AIML Badges (by google cloud): **Prompt Design in Vertex AI Skill Badge, Build Real World AI Applications with Gemini and Imagen Skill Badge**
- Tools: Git (Version Control), Git Bash (Command Line Interface), PowerShell, SSH client
- Operating Systems: Experience working with Unix/Linux environments, distributed systems, machine learning, information retrieval, and TCP/IP.
- Project Work: [<https://github.com/devv712>]
 - Built a Full Stack AI SaaS Platform with Next.js 14, TypeScript, and Stripe.
 - Used the 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.

Language:-

- English (C2 Proficiency)
- Japanese(N5Level)

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.

Interests:

- Wildlife Photography, Traveling, Painting, Hockey, Dance.