

Abhay Thakur

+91-8809139192 — tabhay0055@gmail.com — linkedin.com/in/abhay-thakur-614b1a2b4 — github.com/abhay41

Summary

Final-year student with experience in DevOps and cloud projects, focusing on automation, security, and scalable, cost-effective microservices. Skilled in Infrastructure as Code to streamline cloud deployments and improve efficiency. Committed to delivering secure, robust solutions and collaborating with teams to build reliable, scalable systems that advance cloud engineering and DevOps practices.

Skills

Cloud Platforms: AWS (EC2, Lambda, S3, VPC)	Monitoring & Logging: Prometheus, Grafana
Programming: Python, Java, JavaScript, Shell Scripting	Version Control: Git, GitHub
Containerization: Docker, Kubernetes (EKS)	Databases: MySQL
Operating System: Ubuntu, CentOS, Windows	Machine Learning: TensorFlow, scikit-learn, Neural networks, Data modeling, algorithms
CI/CD Tools: Jenkins, GitHub Actions, ArgoCD	
IaC: Terraform, Ansible	

Work Experience

Infosys Springboard

May 2024 - July 2024

AI/ML Intern (Remote)

- Developed a plant disease detection web application using Python and TensorFlow, achieving 96% model accuracy.
- Reduced time to diagnosis by 25% through integrated disease classification and treatment suggestion features.
- Streamlined deployment using Docker/Compose and collaborated on design, reviews, and testing.
- Collaborated in a team, contributed to design discussions, code reviews, and testing of deployed modules.

Project Experience

AI-Driven Brain Tumor Detection Web App

- Created a full stack web application using TensorFlow, Flask, MySQL, HTML/CSS/JS for MRI-based tumor analysis.
- Containerized services and deployed on Amazon EKS with Kubernetes manifests for scalability.
- Configured Nginx ingress and automated system management for secure, reliable operations.

End-to-end Microservices Deployment on AWS EKS

- Provisioned and deployed microservices on Amazon EKS using Infrastructure as Code.
- Automated continuous integration and delivery with Jenkins, enabling seamless updates and rollbacks.
- Implemented GitOps with ArgoCD and monitored workloads via Prometheus and Grafana.

Amazon Prime Clone Deployment with DevOps Automation on AWS

- Automated infrastructure rollout using Terraform to provision EC2 instances and EKS clusters securely and efficiently.
- Integrated code quality checks (SonarQube) and security scanning (Aqua Trivy) within Jenkins-driven CI/CD pipelines.
- Containerized services, pushed images to AWS ECR, and orchestrated deployments on EKS via ArgoCD.

Education

Bachelor of Technology in Computer Science & Software Engineering

C.V. Raman Global University, Odisha

November 2022 - Present

Cumulative GPA: 8.59/10

Higher Secondary Education

National Infotech School, Birgunj

Sep 2020 – Oct 2022

Cumulative GPA: 8.53/10

Certifications & Research Papers

- KodeKloud -DevOps Mastery
- Implementation and Performance Analysis of K-NN Algorithm for Classification.

Strengths & Achievements

- Strong problem-solving skills, passionate about automation, and a continuous learning mindset.
- Awarded Fully funded Study in India Scholarship by the Ministry of Education, India.
- Taught basic computer skills to 40+ underprivileged children, boosting digital literacy by 60%.

Additional Information

- Languages Known: English, Hindi, Nepali
- Interests: Cloud Technologies (AWS), Data-Driven Solutions, Machine Learning and AI, AI-powered apps