Rishabh Upadhyay

+91 7011377819 — uprishabh29@gmail.com — linkedin.com/in/rishabh-upadhyay-880294220

Education

SRM Institute of Science and Technology	Tamil Nadu, India
B.Tech.-Computer Science and Engineering **9.33 CGPA**	*Sept 2021 - Jun 2025*

Technical Skills

Key AI/ML Skills : LLMs,Gen AI,AI Agent Development,RAG,Ollama,MCP,OpenCV
Languages : C/C++,Python,HTML/CSS, MySQL,Terraform,Kubernetes,Docker
Developer Tools : Git, VS Code, PyCharm,Tableau, SQL,Workbench,AWS,Gitlab

Experience

Software Engineer (Full Time)

Aptiv Components Pvt Ltd — *Jul 2025 - Present*

- Design and implemented CI/CD pipelines for ML models by Working with Airflow to automate model training and deployment and optimizing data ingestion and feature engineering workflows.
- Deploy machine learning models using Docker and Kubernetes. Implement model monitoring tools to track drift, performance, and failures.Ensure smooth integration of ML models into production systems.
- Optimized AWS costs by implementing **auto-scaling, Spot Instances, and Reserved Instances**, reducing compute expenses by **30%**. Improved **storage efficiency** using **S3 lifecycle policies and data compression**, cutting costs by **20%**. Developed **cost monitoring and resource shutdown**, minimizing waste and ensuring efficient cloud usage.

Machine Learning Intern

Acmegrade — *Mar 2022 - May 2022*

- Collaborated with the team to identify and collect relevant data for machine learning projects.
- Streamlined data cleaning processes by developing a comprehensive script that helped removal of duplicates and inconsistencies, improving dataset accuracy by 80% and enhancing overall data integrity for analysis.
- Applied machine learning algorithms using programming languages like Python and others.

Projects

Secure Secrets Management Integration | *AWS Secrets Manager,Terraform,Gitlab*

- Integrated AWS Secrets Manager with Terraform to securely manage infrastructure secrets, eliminating .tfvars files across 100% of deployments and automating secret retrieval during provisioning.
- Configured fine-grained IAM roles and policies to enforce least-privilege access, reduce secret exposure risk by 95%, and enable seamless secret rotation with full auditability.
- Improved infrastructure security posture by 40% and reduced manual credential handling by 80%, aligning the solution with DevSecOps best practices and compliance standards.

DevOps Monitoring and Cost Optimization Dashboard | *AWS, Prometheus, Grafana, Gitlab, Terraform*

- Deployed a centralized monitoring and alerting system for production workloads using Prometheus, Grafana, and AWS CloudWatch, improving system observability and reducing MTTD by 45%.
- Contributed to a 15% reduction in monthly cloud costs by flagging idle EC2 instances, optimizing EBS volumes, and adjusting auto-scaling thresholds based on insights from Prometheus alerts and Grafana dashboards.
- Engineered off-hours infrastructure shutdown using an AWS Lambda function, which stopped EC2 instances after 8 PM and restarted them each morning—reducing idle resource usage and cutting non-working hour cloud costs by 35%.

Achievements

- Achieved 5th place in **SRM Layer's** Hackathon
- Secured 7th place in a coding contest organized by **SRM Hackathon Club** at SRM University.
- Completed a Node.js and React.js workshop based on Scholarship with **Bajaj Finserv Health**, focusing on building scalable, interactive web applications.

Certifications

- Oracle Cloud Infrastructure Foundations Associate — Oracle, 2024
- Oracle Cloud Data Management Foundations Associate — Oracle, 2024
- Oracle Building MySQL Databases for Applications — Oracle, 2024