

RAHUL KUMAR

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EDUCATION

Bachelor of Technology, IIMT College Of Engineering, Greater Noida, Uttar Pradesh, India Expected-2024

Branch: **Computer Science and Engineering.**

Relevant Coursework: OS, DSA, ML, Computer Network, Database.

Diploma Engineering, Government Polytechnic Manesar, Gurugram, Haryana, India. 2017 - 2020

Branch: **Electronics and Communication Engineering.**

Class X (CBSE), ST. Joseph's Public School, Dalsinghsarai, Samastipur, Bihar. 2016 - 2017

SKILLS

Programming:Python | DSA | MySQL

Technologies:AWS | Docker | Kubernetes | CI/CD | Terraform | Ansible | Machine Learning

Tools: Linux | Git | Grafana | Seaborn | Tensorflow | Keras | Pandas | VsCode | NumPy | Matplotlib

Soft Skills:Leadership | Fast Learner | Time Management | Team Management | Communication

EXPERIENCE

Artificial Intelligence Intern November 2023 - December 2023

AICTE (All India Council of Technical Education) *Remote*

- During my Artificial Intelligence Internship at AICTE, I had the privilege of working on many exciting projects that are related with Machine Learning, and that allowed me to delve deeper into the world of Artificial Intelligence.([Projects](#)).

PROJECTS

Two-tier Application Deployment:- Deployed a Flask-MySQL two-tier application.

Situation: Deployed a Flask-MySQL two-tier application, scaling it to handle 10,000 concurrent users with optimal DevOps practices.

Task:- Dockerized app, setup Kubernetes cluster with Kubeadm, transitioned to AWS EKS for fault tolerance.

Action:-

- Containerize app with Docker, Docker-compose, versioning on DockerHub.
- Automate Kubeadm, migrate to AWS EKS with eksctl.
- Package Manifests with HELM, deploy on AWS EKS, ensure multi-node setup, use Load Balancer.

Result:- Enhanced application scalability to support 10,000 concurrent users and 60% downtime reduction with AWS EKS.

Node.js Web Application:- To deploy a Node.js web app, begin by cloning the Git repo. Utilize Docker to build the code, ensuring consistency across environments. Employ Jenkins for (CI/CD) to automate the entire process, from testing to deployment. Push the Docker image to Docker Hub for accessibility. And deploy the app on an AWS EC2 instance for scalability and reliability. This streamlined approach enhances development efficiency and ensures seamless deployment, empowering teams to focus more on innovation rather than repetitive tasks.([Project](#))

LEADERSHIP

- GDSC (DAVCC) - AI/ML 2022-2023

ACTIVITIES

Volunteering at a job fair provides the opportunity to expand professional network, gain event planning skills, develop transferable skills such as communication, organization and teamwork, and give back to the community by supporting job seekers and employers.