

ADITYA R KHOT

<https://adityakhots.github.io> | +91 74111 07924 | adityakhots55@gmail.com |  [AdityaKhot](#) |  [AdityaKhot](#)

Summary

Computer Science Undergrad at PES University, Bangalore. AWS Cloud and DevOps Engineer Intern at Pesu Venture Labs.

Education

2020 - 2024 PES University, Bengaluru | B. Tech in Computer Science and Engineering
2020 Class 12th (PCMCs), Konnur College of Science | Aggregate : 91
2018 Class 10th, REMS High School, Belgaum | Aggregate : 94.24

Skills

- Languages - Java, C, C++, Python, SQL, GoLang, YAML, HCL
- Technologies - AWS, Jenkins, Docker, GIT, GitHub, GitLab, Kubernetes, Ansible, Terraform, Linux
- Others - Data Structures, Algorithms, MySQL, Data Analytics, Machine Learning, CI/CD Pipelining

Work Experience

AWS Cloud and DevOps Engineer Intern, PVL Jan 2024 – Present

- Established a cloud infrastructure to automate the process of initiation and termination of test servers through the utilization of EC2 Instances, Lambda functions, SNS, and API Gateways.
- Employed Terraform to automate infrastructure provisioning and management, ensuring consistent and repeatable deployments of cloud services by defining and deploying infrastructure as code.
- Created an auto-scaling solution and implemented automatic start-stop mechanisms for servers to maximize cost-effectiveness in utilizing cloud services.
- Developed a messaging infrastructure with SNS to promptly notify stakeholders for server outages and unexpected shutdowns, ensuring swift response and proactive management.

Projects

ClimateSmartAg Jan 2024

- Spearheaded the development of ClimateSmartAg, an innovative project dedicated to analyzing and predicting GHG emissions from agricultural activities.
- Applied machine learning models, including SARIMA, Adaptive KNN, and XGBoost, to enhance accuracy and insights, highlighting proficiency in sustainable agricultural and environmental impact assessment.

MicroService Hack May 2023

- Employed Docker and Kubernetes to craft a readily deployable and portable blogging web app using flask and mongoDB. HTML and python languages are used to build frontend webpages.
- The microservices architecture will deploy a Kubernetes cluster with a mongodb server pod fronted with a web admin interface and a pod to run the flask app.

Brain Stroke Prediction

Feb 2023

- Developed a Machine Learning model to Assess the Likelihood of occurrence of Cerebral Strokes in a patient with attributes like age, gender, bmi, hypertension, glucose level and heart disease.
- ML Algorithms like Decision tree, KNN and Logistic Regression were used and combined with the Ensemble model XGBoost.

ExtraCurricular Achievements

- Organizing a Knowledge transfer Session for new Joiners aspiring to pursue a career in DevOps.
- Solved 250+ Problems on Leetcode, Coding Ninjas and HackerRank.
- Published a Conference paper on analyzing and predicting GHG emissions from agricultural activities.

Certifications

AWS Cloud Practitioner - (AWS)

- Worked on EC2 Instances, Lambda, S3 Bucket, API Gateway, IAM and other Basic AWS Services.

Linux Kernel Development

- Explored the Basics of Linux Kernel Development through a Beginners Guide.