Mohammed Kais

Cloud Infrastructure automation, and fostering collaborative workflows.

www.kaiswork.shop | mdkdw16@gmail.com | 6361452969 | linkedin.com/mohdkais | github.com/Kais18

PROJECTS

Portfolio Complete End to End CI/CD Implementation

Tech Stack: AWS, LAMBDA, S3, ROUTE 53, CloudFront, GIT, GIT Actions, IAM, Terraform, DynamoDB (AWS).

- Utilizing **Continuous Integration and Continuous Deployment (CI/CD)** practices, integrating AWS services to enhance efficiency, scalability, and reliability in software development and deployment processes.
- GitHub Actions automates website build and deployment, and Terraform orchestrates AWS infrastructure like S3 buckets and CloudFront distributions, **enhancing development workflows**.

CI/CD Application using Kubernetes and Terraform

Tech Stack: AWS EKS, ECR, VPC, Docker, Kubernetes, Helm, Git Actions, Maven, SonarCloud, Terraform

- This application runs on Kubernetes and utilizes **GitHub Actions for CI/CD**, automating code integration and deployment. Terraform manages AWS infrastructure, provisioning services like EKS for Kubernetes orchestration.
- ECR for Docker image storage, and **VPC for secure networking**. Docker containers package the application, while **SonarCloud ensures code quality.**
- Maven handles build automation. Helm charts facilitate Kubernetes application management. This setup ensures **efficient, scalable, and maintainable deployment processes.**

Fetal Brain Abnormalities Detection and Classification [Academic]

Tech Stack: CNN, YOLOv6, Python, Jupyter.

- Implemented a cutting-edge Fetal Brain Abnormality Detection and Classification system using advanced machine learning techniques. **Achieved high accuracy in identifying anomalies from fetal brain images**
- To Detect Abnormality in Fetal Brain and Classify it based on different types of abnormalities in early stages. **Increasing the accuracy to detect the abnormality of the fetus by 18% percent**
- **Role:** Developer and project leader.

WORK EXPERIENCE

INTERNSHIP

Data Science Intern   August 2023 – September 2023

Global Core Tech

- **Key Responsibilities**: Addressed the critical need for early detection of breast cancer, aiming to improve survival rates and reduce the overall impact of the disease, utilized state-of-the-art machine learning algorithms
- **Achievements**: Acquired significant expertise in the technology sector through the development of the Deep Learning project. Experienced a notable increase in self confidence

CERTIFICATION

AWS Training and Certificate - AWS Cloud Practitioner Essential

AWS Knowledge - Cloud Essential.

Udemy - DevOps Intermediate to Advance certificate.

Coursera: Python Programming Course Certified.

Udemy: Linux Firewall.

Udemy: Python Development & Data Science: Variables and Data Types.

TECHNICAL SKILLS

Programming/ Script Languages:
Python, C, C++, Java, Linux, Bash, Shell Script.

Networking:
DNS, TCP/IP, DHCP, Routing, Switches, OSI.

System Administration:
Linux, Ubuntu, Bash Shell, Vagrant, CentOS.

Cloud Infrastructure:
AWS, GCP (Google Cloud Platform).

CI/CD: Jenkins, GitHub Actions

Containerization & Orchestration:
Docker, AWS ECR, Kubernetes, AWS EKS, Helm.

Version Control System: Git, GitHub, AWS CodeCommit, AWS EBS

Configure management/ IAAC:
Ansible, Terraform, AWS CloudFormation

Cloud Monitoring/ Build Tool:
Prometheus, Grafana, CloudWatch, Sonarcloud/Nexus, Maven

Database: SQL, DynamoDB, MongoDB

EDUCATION

KNS Institute of Technology (VTU)
Visvesvaraya Technological University
B.E in Computer Science   – **GPA: 8.02**
Achievements: Consistently ranked as the Top 5 Students in Academic Scores

Teachers Academy Pre-University
Pre-University (PUC)   – Sep 2020

St. Aloysius High School
Secondary Education   – April 2016

OTHER

BOOTCAMP: DSA in C++ (5 days) from LetsUpgrade