

Muhammad Nabeel Asad

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I am a professional Python developer with a year of experience, currently pursuing an AI Master's degree. Skilled in machine learning algorithms like Linear Regression and Random Forest using Pandas and PyTorch. Actively learning DevOps practices with Docker, Kubernetes, and Jenkins for CI/CD pipelines. Passionate about leveraging AI to drive innovation and solve complex problems.

EDUCATION

Brandenburgische Technische Universität
Masters in Artificial Intelligence

Cottbus, Germany
April 2023 - Present

IQRA University
Bachelor in Computer Science

Karachi, Pakistan
Sept 2017- July 2021

TECHNICAL SKILLS

- **Scripting & Programming Language:** Python, R, Flask, Fast API, PowerShell Scripting, JavaScript.
- **CI /CD and Version Control Tools:** Git, GitHub, Jenkins, CI / CD Pipelines, Gitlab, Ansible.
- **Cloud Platforms & Containerization Tools:** AWS, Azure, Kubernetes, Docker, Docker compose.
- **Infrastructure as Code:** Terraform
- **Monitoring Tools:** Prometheus, Grafana.
- **Data Science and Deep Learning Libraries:** Pandas, Scikit-Learn, Pytorch, Keras.
- **Machine Learning Algorithms:** Linear Regression, Logistic Regression, Random Forest, K-means.
- **Soft Skills:** Critical Thinking, Problem Solving, Research and Analysis, Agile.

PROFESSIONAL EXPERIENCE

DTS Inc. Pakistan,
Software Engineer

Karachi, Pakistan
March 2022–April 2023

- Developed RESTful APIs using Flask and Fast API, significantly improving backend efficiency.
- Automated deployment workflows with Python scripts, optimizing software delivery speed by 50%.
- Managed GitHub for version control and orchestrated CI/CD pipelines with Jenkins, optimizing software delivery workflows.
- Implemented Docker, Docker Compose and Docker Hub to streamline containerization and deployment processes, ensuring smooth software delivery.
- Implemented Terraform and Ansible for Infrastructure as Code-(IaC), integrated Grafana.

PERSONAL PROJECTS

Deployment of a Three-Tier Application on AWS EKS (Managed Kubernetes Service)

- Successfully deployed a scalable three-tier application (ReactJS, NodeJS, MongoDB) on AWS EKS (Elastic Kubernetes Service), utilizing Kubernetes for efficient orchestration and management.
- Implemented AWS ALB (Application Load Balancer) for effective load balancing, ensuring optimal distribution of traffic across application tiers.
- Acquired practical experience in cloud-native technologies, containerization, and cloud infrastructure management, strengthening proficiency in full-stack development and Kubernetes deployment in production environments.

GitLab CI/CD Pipeline for Django/Node Application Deployment on AWS EC2

- Developed and deployed a Django/Node application using a GitLab CI/CD hub pipeline, Docker, and AWS-EC2.
- This project involved configuring a complete CI/CD pipeline for automated testing, building, and deploying the application.
- Gained hands-on experience in DevOps practices, Docker containerization, and cloud deployment, enhancing my skills in software development and deployment automation.

CERTIFICATIONS

- **Advanced DevOps -Train with Shubham**
Link: <https://www.trainwithshubham.com/>

HONOUR AND AWARDS

- **Special Achievement Award – DTS Inc. Pakistan:**
DTS Inc. Pakistan [25/03/2023]
Awarded in appreciation of outstanding contribution to the organization.

SPRACHEN

- **English:** C1
- **German:** (derzeitiges Niveau A2 und weiter lernen für B1).