Hassan Ali

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ABOUT ME

I am **Hassan Ali**, a **Software Engineering student (6th semester) at Pak Austria Fachhochschule Institute of Applied Sciences and Technology, Haripur**. Passionate about **Cloud Computing, DevOps, and AI.**

I have completed an **internship at SPCAI** and am currently doing an **apprenticeship in High-Performance Computing at SPCAI**. Proficient in **Python, C++, Linux ,Gitops, Devops and Linux**, I focus on automation, cloud infrastructure, and CI/CD solutions. With strong **problem-solving, teamwork, leadership, and communication skills**, I aim to become a **DevOps Engineer, Cloud Architect, and AI Specialist**.

LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s): **ENGLISH**

EDUCATION AND TRAINING

17/10/2022 – CURRENT Haripur, Pakistan
BACHELOR'S IN SOFTWARE ENGINEERING Pak-Austria Fachhochschule Institute of Applied Sciences and Technology

Website https://paf-iast.edu.pk/

WORK EXPERIENCE

25/07/2023 – 15/09/2023 Haripur, Pakistan
NLP INTERN SINO PAK CENTER FOR ARTIFICIAL INTELLIGENCE (SPCAI)

- Preprocessed and curated datasets for **NER model training**.
- Trained and optimized **4–5 NER models** using **Python & spaCy**.
- Evaluated models using **precision.**
- Improved model accuracy through **algorithm fine-tuning**.

01/11/2024 – CURRENT Haripur, Pakistan
HPC APPRENTICE SINO PAK CENTER FOR ARTIFICIAL INTELLIGENCE (SPCAI)

-Deploying and managing **virtual machines (VMs) on Proxmox**.
-Configuring and optimizing **Proxmox-based cloud infrastructure**.
-Implementing **cloud computing solutions** for high-performance environments.
-Ensuring efficient **resource allocation and system management**.

SKILLS

DevOps | Linux | Proxmox administrator | Python | Cloud Virtualization | C++ | Web Development | AI | Project Management | IaC | GitOps | ML | IOT | Arduino Programming | Kuberneties | Docker

- ## **PROJECTS**

Chatbot Using Open-Source LLM

Developed an **AI-powered chatbot** using **LLaMA 3.3 70B Versatile** and **Chainlit** for natural language interactions. Implemented **context-aware responses**, optimized model inference, and enhanced user experience.
⬚ **GitHub:** [Chatbot Repository](#)

Cold Email Generator

This Project is developed for **Technik Nest Software House**, this project leverages **Streamlit and an open-source LLM API** to generate personalized and effective cold emails. It streamlines outreach by automating content creation, enhancing efficiency and engagement.

Arduino & IOT

-Relaxer – Automated relaxation device using Arduino.
-Ventilator – Prototype for assisted breathing support.
-Incubator – Smart temperature-controlled incubation system.
-Fire Alarm – IoT-based fire detection and alert system.
-Smart Dustbin – Automated waste management system with sensor integration.

Deployment & CI/CD Projects

-Automated Web Application Deployment: Deployed a **test web application** with a **frontend, backend, and MongoDB database**. Designed a **CI/CD pipeline** using **Docker, Jenkins, GitHub, and webhooks**, automating deployment on a server with containerized applications and Docker images.
-Kubernetes-Based Application Deployment: Set up a **Kubernetes cluster** and deployed an application using **Argo CD and Docker Hub**, ensuring automated, scalable, and efficient deployment.
Role: DevOps Engineer – Managed **CI/CD pipelines, containerization, automation, and cloud deployment**, ensuring seamless integration and scalability.
⬚ **GitHub: CICD Repository** – [CI/CD Full-Stack Project](#)

- ## **HONOURS AND AWARDS**

Google Cybersecurity Specialization

Earned a specialization certificate from Google through Coursera, covering **network security, risk management, threat detection, incident response, and security best practices**.

Kubernetes Certification

Earned **two certifications: Kubernetes Fundamentals** (core concepts, deployment, and management) and **Advanced Kubernetes** (scalability, security, and advanced cluster management). ,Obtained from **Coursera**