

# Saad Ahmad

COMPUTER SCIENTIST · DEVOPS ENGINEER · MACHINE LEARNING ENGINEER

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## Work Experience

### FAST NUCES

COMPUTER SCIENCE INSTRUCTOR

Aug. 2024 - to-Date

FAST NUCES Management acknowledged my conceptual studies, particularly in Linux and Problem Solving, and hired me as a Computer Instructor at the Peshawar Campus in August 2024, shortly after I was awarded my Graduate Degree in BS-CS. I am currently transferring my knowledge to the BS-CS students at FAST NUCES Peshawar.

### COLAB (Research Lab)

FAST NUCES

TEAM LEAD

Nov. 2022 - Jun. 2024

- Led and facilitated successful workshops and presentations on diverse technologies, including AI and DevOps.
- Provided mentorship to junior members, sharing insights and experiences to foster their professional growth.

### DevOps / Linux / SysOps

Remote / Peshawar

DEVOPS ENGINEER (FREELANCE & ACADEMIC)

May 2022 - Present

- Deployed Docker containers and managed Kubernetes clusters (Minikube).
- Built CI/CD pipelines with GitHub Actions; monitored systems using Prometheus and Grafana.
- Automated Linux server tasks with shell scripts; managed SSH, firewall, and user permissions.

## Projects

### Real-Time Anomaly Detection in Kubernetes Cluster using Three-Way Decisions

FAST NUCES

FINAL YEAR PROJECT (FYP)

Sep. 2023 - Jun. 2024

- Developed an algorithm for detecting anomalies in Kubernetes clusters with high precision and low false positive rates using three-way decision theory.
- Implemented the algorithm in a live Kubernetes environment for real-time monitoring and alerting.
- Conducted extensive testing to validate performance under various load conditions.
- Tools:** Python, K8s, Prometheus, Grafana, Locust, InfluxDB, GitHub.

### Cyber-Attack Classification in Network Traffic

6th Semester

ARTIFICIAL INTELLIGENCE

Jan. 2023 - June. 2023

- Developed machine learning models for classifying cyber-attacks in network traffic using classification and clustering algorithms.
- Preprocessed and cleaned a given dataset containing network traffic attributes to enhance model performance.
- Applied feature engineering techniques to extract relevant features for improved classification accuracy.
- Implemented multiple classification and clustering algorithms to predict attack types and evaluated their performance.
- Analyzed and reported model performance metrics to assess the effectiveness of different approaches.

### Coding Tutorials Written

Online

BLOG

Sep. 2021 - Present

- Authored tutorials on topics including **DevOps**: Docker, Puppet, Hadoop; **Cloud Computing**: AWS, Azure; **ERP**: Odoo.
- Focused on clear explanations for beginners, fostering a learning community through reader engagement.

## Skills

#### Linux Administration

Linux (Arch, Ubuntu), bash scripting, systemd, networking, package management.

#### Dev-Ops

Proficient in deploying and managing applications on AWS, Azure, Docker, Kubernetes.

#### Programming

Skilled and experienced in Python, C/C++.

#### Machine Learning

Skilled and experienced in Pandas, Numpy, Sklearn, Tensorflow.

#### Networking

Skilled in simulating & analyzing networks using Packet-Tracer, WireShark.

#### Version Control

Well-versed in version control systems like Git.

## Education

### FAST NUCES(National University of Computing and Emerging Sciences)

Pakistan

B.S. IN COMPUTER SCIENCE

Sep. 2020 - Jul. 2024

- Courses included Programming Fundamentals, Data Structures, Database System, Algorithms, Operating Systems, Artificial Intelligence, Cloud Computing.