

Muhammad Ahmad

[linkedin/ahmadai](#)

ahmad.dstech@gmail.com

[github/AhmadMughal-DS](#)

[03226510517](tel:03226510517)

EDUCATION

Comsats University Islamabad | [Comsats.edu.pk](#)
Bachelor's Degree in Data Science

Sep 2021 - Jun 2025
Islamabad, Pakistan

LICENSES & CERTIFICATIONS

 **AWS Certified Solutions Architect – Associate**

Issued Sep 2024

EXPERIENCE

OIRRC | [oirrc.org](#)

Junior DevOps Engineer

Nov 2025 – Mar 2026

Islamabad, Pakistan

- Managed DNS, SSL/TLS, and security configurations via **Cloudflare** for production domains.
- Configured **IIS (Windows Server)** to map specific applications and ports to designated paths, ensuring efficient traffic routing and service isolation.
- Scaled web server capabilities by increasing **data load request limits** from 30MB to 2GB to support large-scale clinical data transfers.
- Engineered CI/CD pipelines using **GitHub Actions** to automate deployments on Azure Virtual Machines via SSH and **docker-compose**.
- Deployed **Azure Virtual Desktop (AVD)** multi-session environments, achieving a 30% reduction in infrastructure costs through resource consolidation.
- Analyzed and optimized cloud architecture by identifying **underutilized resources** and implementing **right-sizing** strategies, resulting in a **30% reduction** in overall infrastructure costs.
- Built **Prometheus and Grafana** dashboards with automated alerting integrated into Microsoft Teams for real-time monitoring.
- Architected and managed cloud infrastructure using **Terraform** and **Google Cloud Platform (GCP)**, leveraging **Google Cloud Storage (GCS)** for secure, centralized backend state management.
- **CI/CD Automation:** Developed automated deployment pipelines using **Cloud Build**, streamlining infrastructure updates and ensuring 100% consistent environments across projects.
- Managed lifecycle operations for hybrid environments, performing scheduled **reboot activities** and maintenance on **RHEL and Windows Server** virtual machines within GCP to ensure high availability and security patching.

MTBC-Carecloud | [Carecloud.com](#)

Junior DevOps Engineer

May 2025 – Nov 2025

Islamabad, Pakistan.

- Drive Azure DevOps CI/CD for on-prem apps. Automate build/deploy and Docker images and promotion flows.
- Configure and harden NGINX as a reverse proxy. Enable TLS, gzip, caching, redirects, and health checks for uptime.
- Own Linux ops and incident response. Use bash, log analysis, and process/network diagnostics on production servers.

PROJECTS

LegalHub.AI – Final Year Project

FastAPI, AWS

June 2024 – Dec 2025

- Built a RAG-based chatbot allowing users to upload legal cases and retrieve relevant laws and regulations.
- Automated Legal Document Drafting: Allows users to select templates and input data to generate legal drafts.
- Developed a Client-Lawyer Platform enabling clients to contact lawyers based on their niche and specialization.

DevOps Assistant Chatbot  [GitHub](#)

EC2, MongoDB, FastAPI

Mar 2025

- Built a FastAPI-based backend integrated with OpenAI to provide DevOps question-and-answer capabilities.
- Deployed the application on AWS EC2 with MongoDB for persistent chat history and secure public access.

Insurance Charges Predictor  [GitHub](#)

FastAPI, SageMaker, S3

Aug 2024

- Improved model inference speed by 30%, enhancing insurance premium prediction accuracy and operational workflows.
- Deployed the machine learning model using FastAPI with AWS SageMaker and S3 for scalable inference.

US VISA Predict MLOps Cycle  [GitHub](#)

Docker, FastAPI, AWS

Jun 2024

- Built FastAPI web app to predict European visa outcomes using MongoDB and feature engineering.
- Optimised the classification models with GridSearchCV and deployed the solution on AWS EC2.

TECHNICAL SKILLS

DevOps: Git, Docker, Linux, Jenkins, NGINX, Terraform, Helm, Grafana, bash, python

AWS: SageMaker, EC2, S3, VPC, Subnet

Azure: Azure Virtual Machines, Azure DevOps, VNet, Azure App Service, Azure Container Registry