

Faisal Mabood

DATA SCIENTIST

I am hard-working, motivated, and enthusiastic. I always strive to achieve the highest standard possible, at any given task and in any situation. I am excellent at working with others to achieve a goal on time.



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WORK EXPERIENCE

ML Developer / Python Developer

TargetZero AI Inc. (Islamabad, office),
(formerly High Plains Computing)

10/2022 - Present

TargetZero AI Inc., USA, 1099 Los
Robles Ave. Palo Alto, CA 94306

Projects/Tasks

- **ZeroAgent:** Built a FastAPI "Zero" agent platform (Python, LangChain/LangGraph, AWS Bedrock) that ingests evidence, extracts speaker-labeled transcripts from bodycam audio, runs RAG over indexed content, and auto-generates/amends NIBRS-compliant reports with versioning. Delivered incident-based evidence lookup and inspection tools (SQLAlchemy/Pydantic) returning structured JSON, plus resilient intent routing that handles varied user phrasing and malformed LLM output; added pytest coverage across evidence/report pipelines.
- **Hercule,** AI-Driven Investigation Platform : Led development of an advanced AI-powered investigation system that ingests and analyzes audio, video, PDFs, handwritten reports, images, and other documents . Integrated AWS Bedrock LLMs , vector databases , and retrieval-augmented generation (RAG) for context-aware insights. Key features include LLM-based summarization, automated report generation, secure text redaction, a smart search engine, and an AI chatbot with full case knowledge . Built with FastAPI and deployed on AWS , providing scalable, secure, and intelligent tools for investigative workflows.
- **Tranquil :** Developed a self-service security assignment tool that aligns with AWS Security Well-Architected Pillars. Built with Flask and Bootstrap, and deployed on AWS using AWS CodePipeline, Tranquil enhances security management for users.
- **Tait Photo Library :** Created a photo library for a US-based media company, facilitating the management of media clients' projects. This application, built with FastAPI, Bootstrap, JavaScript, HTML, and CSS, is deployed on AWS, ensuring reliability and scalability.

SKILLS

Data Science Programming languages
AWS DevOps Testing AWS Clouds
Deployments AWS CICD AWS Cloud Formations
AWS (IAM) Management Team Coordination
Microsoft Office Software engineering
Data scrapping Entity Relation diagram for Database
Scripting

PERSONAL PROJECTS

Smart Infrastructure Monitoring System Using AI
(03/2019 - 03/2020)

- Designed and implemented an AI-powered system to monitor infrastructure health, leveraging machine learning and sensor data to detect anomalies, predict failures, and enhance maintenance efficiency.

Gas Station Management system (03/2020 - 10/2020)

- Developed a software solution to streamline daily operations of gas stations, including fuel inventory tracking, sales management, and customer billing, improving efficiency and accuracy.

Global Development Program(PhP) (09/2018 - 03/2019)

- Engaged in a structured academic and professional learning program focused on global challenges, leadership, and sustainable development, enhancing cross-cultural collaboration and problem-solving skills.

TECHNICAL SKILLS

Python

Numpy, Pandas, Tensorflow, PyTorch Sklearn, Seaborn, Matplotlib, Beautiful Soup, Selenium, Scipy, Nltk, statistic for data sciences, Flask

Identity & Access Management (IAM)(AWS)

- AWS Identity & Access Management (IAM): Policies, roles, permissions, and compliance - single sign-on (SSO), and multi-factor authentication (MFA) - managing access controls across enterprise systems

Cloud Security and Cross-Functional Collaboration (AWS)

- AWS Security Best Practices - Integration of IAM solutions across cloud environments. - Facilitating secure application onboarding and IAM alignment with business needs

Automation , Optimization and Technical Skills (AWS)

- Streamlining IAM workflows - Identifying and implementing process improvements

WORK EXPERIENCE

Python Developer

The Point of IT

12/2021 - 06/2022

Islamabad, Pakistan

Achievements/Tasks

- During a 6-month internship at PointOfIT, I gained valuable experience and developed a strong foundation in web development, database management, and ERD design. I worked on real-world projects, enhancing my skills in AWS cloud technologies and earning an IBM Certificate. This internship provided me with hands-on experience in building scalable web applications, managing complex databases, and deploying solutions in cloud environments.

Android Developer

webDsoft

01/2021 - 03/2021

Swat, Pakistan

Achievements/Tasks

- Learned mobile apps design

EDUCATION

Master of Science in Data Sciences

Riphah International University, Islamabad

03/2021 - 02/2023

CGPA :3.78

Courses

- Machine Learning
- Natural Language processing
- Tools and techniques For Data Sciences
- Advance Programming
- Data Warehousing
- Deep Learning
- Statistic and Probability
- Big data
- Advance Database Systems

Bachelor of Science in Software Engineering

Comsats University, Abbottabad Campus

08/2016 - 08/2020

TECHNICAL SKILLS

AWS Cloud Practitioner Certified, AWS DevOps

- Certified AWS Cloud Practitioner with knowledge of AWS cloud services. - Experienced in implementing AWS DevOps practices and managing infrastructure as code.

Web App Development using Python Flask

- Proficient in building scalable web applications using Python Flask and creating RESTful APIs. - Skilled in frontend development with HTML, CSS, and Bootstrap for intuitive user interfaces.

LLM

- Leveraged advanced LLMs such as GPT-3, GPT-4, Mistral, using Langchain prompt and RAG for various natural language processing tasks, including text generation, summarization, and question-answering systems.

CERTIFICATES

AWS Certified Cloud Practitioner (09/2022 - 09/2025)

https://www.credly.com/badges/65808de4-bf6e-4998-a12d-52e540dec8c7/public_url

Machine Learning & Deep Learning in Python & R
(08/2021 - Present)

<https://www.udemy.com/certificate/UC-c4a478db-7970-4a48-9a3b-344ee231bb94/>

Data Analysis with Python(IBM) (06/2022 - Present)

https://www.credly.com/badges/f8c9b6cb-dc33-458e-a8d8-02746c88776b/public_url

What is Data Science?(IBM) (04/2022 - Present)

<https://www.coursera.org/account/accomplishments/certificate/K6CCV-MXP64LX>

Data Warehousing and Business Intelligence
(01/2022 - Present)

<https://www.coursera.org/account/accomplishments/certificate/QXJUS-SMJ5QZ6>

LANGUAGES

Urdu

Full Professional Proficiency

Pashto

Native or Bilingual Proficiency

English

Full Professional Proficiency

INTERESTS

Research

Data Analysis

Critical Thinking

Knowledge Exploration