



# ALI ABDULLAH

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## SUMMARY

I am a Machine Learning and AI Engineer with over 3 years of experience in developing AI solutions. Proficient in Python, TensorFlow, PyTorch, and C++, I specialize in machine learning models, data analysis, and system optimization. I've worked on AI-driven backend solutions at ASimplify and enhanced medical device software at Idea Medicals Pvt Ltd. Currently, I lead the AI team at Hermex Travel after training at Afaq Group. I hold a Bachelor's in Computer Science, and speak English fluently and conversationally in Arabic, focusing on solving complex challenges with AI.

## PROJECTS

- ITSS (Intelligent Traffic Surveillance System)**  
Developed a mobile app that processes CCTV footage to detect accidents, automatically notifying the police and relevant public service providers for prompt response.
- Website Penetration Testing (During CEH Certification)**  
Conducted a comprehensive penetration test on a simulated e-commerce website to identify and exploit vulnerabilities. Utilized tools such as Burp Suite and Nmap to perform tasks including vulnerability scanning, SQL injection, and cross-site scripting (XSS) attacks.
- Rock Vs Mines Detection/Classification**  
Trained Custom Logical Regression Model on Basis on Sonar Signals and Classifying whether the signals are of Rock or Mine

## WORK EXPERIENCE

- Machine Learning & AI Engineer Team Lead, Hermex Travels(Abu Dhabi, UAE) November 2024**
- Designing and optimizing machine learning models for travel predictions using Python, TensorFlow, PyTorch, and Scikit-learn.
  - Deploying AI solutions into Hermex Travel's systems with Flask, Docker, and Kubernetes, ensuring scalability and performance monitoring via AWS and Azure.
- Machine Learning & AI Engineer, SanPlus Technologies(Abu Dhabi, UAE) Project Based Contract**
- Making AI based solutions as per the requirements of Clients
  - Made Fraud Detection Model with Computer Vision using custom dataset
- Machine Learning & AI Engineer Trainee, Afaq Group (Abu Dhabi, UAE) August 2024 - October 2024**
- Developed and maintained backend services for an in-house project using modern technologies.
  - Ensured seamless integration of third-party services and optimized performance.
  - Collaborated with cross-functional teams to deliver high-quality software solutions.
- Software Engineer, Idea Medicals (Islamabad, Pakistan) January 2022 - June 2024**
- Developed and optimized backend services, integrating third-party solutions.
  - Specialized in medical equipment software, embedded systems, and database management.
  - Ensured high code quality through debugging, testing, and collaboration.

## EDUCATION

- Bachelor of Computer Sciences Aug 2020 - June 2024**  
Riphah International University
- Major in Artificial Intelligence.
  - Product: "Intelligent Traffic Surveillance System (Accident Detection using computer vision)".

## SKILL SETS

- Natural Language Processing (NLP) and Conversational AI
- Advanced Deep Learning Architectures
- Reinforcement Learning and Sequential Decision Making
- Mathematical Optimization and Algorithm Design
- Model Explainability and Interpretability

## ADDITIONAL INFORMATION

- Languages:** English, Arabic.
- Licence:** Abu Dhabi Licence Holder (Light Vehicle Automatic)
- Certifications:** Data Visualization in Python, Python for Data Science and AI development, Data Science Methodology, Generative AI: Introduction and Applications
- Awards/Activities:** Organized and Actively participated in the "1st International Conference on Recent Advances in Computing AI and Data Science 2023" community outreach program.