



Mohammed Alharthi

AI/ML & Computer Science Expert |
Generative AI Specialist

Dedicated AI/ML specialist with a Master's in Data Science (thesis in Artificial Intelligence) and 5+ years of hands-on experience designing, training, and deploying production AI systems. Deep expertise in generative AI, LLM integration, prompt engineering, computer vision, and Python-based AI solutions. Proven ability to create high-quality AI training data, evaluate model outputs, and deliver enterprise-grade AI tools. Seeking remote freelance opportunities to leverage technical expertise and contribute to the development of more capable, ethical AI models.

Contact

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Address

1600, 22st, Almuna heights,
Baushar, Muscat, Oman

Education

2022-Present

Master of data science

Gutech University of Technology

2020

Bachelor of Computer Science

Swinburne University of Technology
Best scoring graduation project.

Expertise

- AI & Machine Learning: Computer Vision, Generative AI (On-Premise), Low-Code AI Platforms, Facial Emotion Recognition, Predictive Modelling, Classification, AI Trading Systems
- Software Development: Web & Mobile (AI-integrated), Python (AI/ML), C#, JavaScript, PHP
- Databases & Analytics: MS SQL, Oracle, MySQL, Tableau, Power BI, R
- Automation & Innovation: UIPath RPA, VR/AR, UI/UX with AI Integration

Language

English (IELTS 7.5)

Arabic

Experience

Jan 2022-Present

Oman Airports | Muscat

Specialized Developer (Sep 2024 – Present)

ICT Developer (Jan 2022 – Aug 2024)

- Initiated and developed AppCraft, a low-code application builder powered by on-premise generative AI models, enabling rapid, secure app development with full data sovereignty.
- Initiated and built multiple AI-powered tools: computer vision passenger queue detection, generative AI auto-typer, computer vision hand detection, and an AI-based emotion detector for the Training Center to support real-time emotional intelligence in staff training.
- Designed and implemented BI dashboards and automated reporting for Contracts, Procurement, Administration, and Tenders, delivering real-time insights.
- Initiated and led VR/AR initiatives integrated with AI to advance airport digital transformation.

2021 - 2022

Oman investment authority | Muscat

Nomou ICT officer

- Developed chair-member candidate selection BI dashboards using Tableau and R with weighted scoring algorithms for the "Thiqat" programme.
- Automated business processes with UIPath (RPA + AI), including tax forms and stock price retrieval, saving full working days per week.
- Built real-time dashboards for training, attendance, and strategy departments to boost transparency.

2020 - 2023

Makeen Technology | Muscat

Founder

- Created customer-facing applications using AI and data analytics to improve business performance.
- Implemented advanced Python AI solutions including trading bots, computer vision, and classification models.
- Delivered data analytics and innovative AI solutions that drove client growth.

References

Ali Albarwani

Advisor to his excellency Ali alshidhani
Ministry of transportation.
+968 99459199

Bader Aljahwari

IM&T IM Solution Architect
Petroleum Development Oman
+968 99611558

Important Links

Github



Appstore



Achievements and awards

- Employee of the Month (twice) – August 2022 & July 2025, Oman Airports
- Co-authored a scientific article published on the "Journal of Global Research in Computer Sciences" titled "Balancing Privacy and Security: Navigating the complexities of Digital privacy in the modern world".
- Winner of the best scoring final year project in Swinburne university in computer science 2020.

Courses and self learning

- IBM AI Developer Professional Certificate – Oct 2024
- Generative AI for Software Developers Specialization – IBM, Oct 2024
- Supervised Machine Learning: Regression and Classification – DeepLearning.AI / Stanford University (100%)
- Building Generative AI-Powered Applications with Python – IBM
- Introduction to Artificial Intelligence – IBM
- Python for Data Science, AI & Development – IBM
- Scalable Machine Learning on Big Data using Apache Spark – IBM
- Microsoft Power BI Data Analyst Professional Certificate – Microsoft, Feb 2024
- Google Data Analytics Professional Certificate – Google, May 2021
- Creating Interactive KPI Management Dashboard using Tableau – Coursera (100%)
- RPA Basics and Introduction to UiPath – UiPath
- .NET FullStack Developer Specialization – Board Infinity, July 2025
- iOS Application Development – SAS Knowledge Oasis

TECHNICAL AI & MACHINE LEARNING PROFILE

AI & MACHINE LEARNING

- Supervised Learning (classification, regression), model evaluation (Accuracy, Precision, Recall, F1)
- Reinforcement Learning (foundational understanding of agents, rewards, policy-based learning)
- Feature engineering, data preprocessing (structured & unstructured data)
- Computer Vision: YOLO-based detection, OpenCV, real-time video inference
- Generative AI: LLM integration, prompt engineering, on-premise deployment
- Predictive modelling, statistical analysis (Python, R)

SOFTWARE ENGINEERING (.NET)

- ASP.NET Core (Web APIs, MVC), RESTful services
- Backend system development for enterprise applications
- Authentication & authorization (JWT)
- Layered architecture (Controller–Service–Repository)
- Integration of AI services into backend systems

DATABASE & DATA SYSTEMS

- MS SQL Server, Oracle, MySQL
- Advanced SQL (joins, stored procedures, performance tuning)
- Database design (normalization, indexing, transactions)
- ETL concepts and data pipeline structuring

TECH STACK

- Languages: Python (Advanced), C#, JavaScript, PHP
- AI/ML: Scikit-learn, OpenCV, NumPy, Pandas
- BI: Tableau, Power BI
- Automation: UiPath

ENGINEERING CAPABILITIES

- End-to-end AI system design (data → model → deployment)
- AI integration into scalable backend (.NET) systems
- Data-driven system design and automation
- Enterprise solution development with AI + databases