



# Saleh Othman Alhuqayl

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## 📄 Summary

Analytical Data Scientist with a strong foundation in AI and public sector innovation. Experienced in scalable data solutions, data quality improvement, and fraud detection using statistical and ML methods. Proven ability to drive transformation, uncover fraudulent behavior, and align analytics with national strategies like NDI.

## 💼 Professional Experience

### 💻 Data Scientist – Mozn | November 2024 – Present

- Designed and delivered AI and data science solutions across government and private sectors, accelerating innovation and digital transformation
- Built and integrated 16+ data systems alongside a centralized data catalog in Informatica, covering 80% of MoHU's core infrastructure and fully aligned with SDAIA's National Data Index (NDI).
- Increased data accuracy by 25% and improved quality by 15% through advanced Python-based validation.
- Developed and applied a statistical fraud-detection algorithm (based on covariance analysis) to identify price manipulation by Hajj offices, resulting in uncovering dozens of violations.
- Built semantic search tools using Retrieval-Augmented Generation (RAG), improving knowledge access and workflow automation by over 50%.

### 💻 Operations Analyst (Intern) – Boeing Saudi Arabia | July 2024 – October 2024

- Upgraded and optimized Boeing's internal simulation tools to accurately model complex operations, enabling stronger decision-making and performance gains.
- Delivered data-driven solutions by conducting operational analysis and presenting insights to stakeholders, achieving 12% cost reduction and strengthening project documentation (RFPs, SOWs).

## 🎓 Education

### Bachelor's in Computer Science – Data Science Track | Majmaah University | 2019 – 2024

- **GPA:** 4.72 out of 5
- **Leader of Tech Hub Student Club** | [Link to Club Website](#):
  - Led Tech Hub Student Club, achieving the Gold Award for Excellence in Student Activities and growing membership to over 1,200 students (80% of CCIS).

## 📄 Certificates

- **AI Programming with Python - Nanodegree Program** |  Udacity | [Link to Certificate](#)
- **PCAD™ – Certified Associate Data Analyst with Python** |  OPENEDG | [Link to Certificate](#)
- **Jr Data Scientist Certificate** |  INE | [Link to Certificate](#)
- **IBM Predictive Analytics Modeler Certificate** |  IBM | [Link to Certificate](#)
- **HCIA-AI Certificate** |  Huawei | [Link to Certificate](#)

## 📚 Research & Publications

### Improving Predictive Maintenance in Industrial Environments via IIoT and Machine Learning

Academic Research | 2023 – 2024 | [Link to Paper](#)

## 📅 Skills

### Soft Skills

Leadership | Problem Solving | Presentations | Communication | Project Management | Analytical Thinking | Team Management | Strategic Decision-Making | Time Management | Creativity | Organization

### Technical Skills

**Languages & Tools:** Python | C++ | R programming | SQL | Informatica Cloud (IDQ) | Microsoft Excel | Microsoft Office

**Libraries & Frameworks:** Pandas | NumPy | Polars | Scikit-learn | Matplotlib | Geopandas | PyTorch

**Data Capabilities:** Data Engineering | Data Pipelines | Machine Learning | Deep learning | Web Scraping | API Integration | Automation | Fraud-pattern analysis | Risk scoring & monitoring systems

## 💻 Languages

- English | Arabic