OMAR WAEL IBRAHIM HAMED

AI Engineer & Data Analyst

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SUMMARY

AI Engineer and Data Analyst graduating in 2026 from Arab Open University, with hands-on experience shipping end-to-end AI solutions — from dataset preparation through model training to deployment — and translating raw data into decision-ready dashboards. Comfortable across the full stack of Computer Vision, NLP, and business analytics: builds CNN/ResNet models for image classification, and Power BI / SQL / Python pipelines that turn messy datasets into clear, actionable insights for non-technical stakeholders.

SKILLS

- AI & Machine Learning: Model Training, CNN, ResNet, NLP, Computer Vision, Image Processing
- Data Analysis: Data Cleaning, EDA, Data Modeling, KPI Design, Reporting
- Tools: Python, Excel, Power BI, Power Query, SQL, PowerPoint, TensorFlow/Keras, Scikit-learn
- SQL: SELECT, JOIN, GROUP BY, Subqueries, Aggregations
- Soft Skills: Analytical Thinking, Problem Solving, Attention to Detail, Communication, Time Management, Collaboration

KEY PROJECTS

AgriTech — Plant Disease Diagnosis System | Graduation Project

- Situation/Task: Farmers often lack fast, affordable access to plant-disease diagnosis, leading to delayed treatment and crop loss.
- Action: Designed and trained a CNN/ResNet-based deep learning model to classify 186 plant disease types from leaf images, then built a treatment-recommendation engine on top of it using a Kaggle-sourced cures dataset.
- Result: Delivered an end-to-end tool that takes a single leaf photo and returns both a diagnosis and an actionable treatment recommendation — replacing what would otherwise require an in-person expert consultation.

Tools & Tech: *Python, TensorFlow/Keras, CNN, ResNet, Kaggle Datasets, Image Processing*

AI Model Training — Plant Sickness Classifier

- Situation/Task: Needed a clean, well-labeled image dataset and a tuned model as the foundation for the AgriTech diagnosis system.
- Action: Collected and preprocessed a plant-disease image dataset from Kaggle, then trained and evaluated a classification model using data augmentation and hyperparameter tuning to improve generalization.
- Result: Produced a high-accuracy classifier and treatment-recommendation pipeline that became the core model powering the AgriTech graduation project.

Tools & Tech: *Python, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow/Keras*

Global Superstore Sales Analysis

- Situation/Task: A retail client needed visibility into performance across 50,000+ orders spanning multiple regions, product categories, and customer segments.
- Action: Cleaned and transformed the dataset in Excel Power Query (handling missing values and standardizing categories), then built an interactive Power BI dashboard tracking revenue by region, top product categories, monthly trends, and profit margins.
- Result: Presented findings and business recommendations in a stakeholder-ready PowerPoint, giving decision-makers a single source of truth for where revenue and profit were concentrated.

Tools & Tech: *Excel, Power Query, Power BI, PowerPoint, SQL*

HR Employee Attrition Analysis

- Situation/Task: HR leadership needed to understand what was driving employee turnover across a workforce of 1,400+ records.
- Action: Ran exploratory data analysis on age, department, job satisfaction, salary, and work-life balance, then visualized attrition patterns by department, gender, and tenure using Power BI charts and Excel pivot tables.
- Result: Delivered a PowerPoint presentation with data-driven retention strategy recommendations for HR decision-makers.

Tools & Tech: *Excel, Power Query, Power BI, PowerPoint, Python (Pandas, Matplotlib)*

EDUCATION

Bachelor's Degree in Artificial Intelligence (AI) — Arab Open University, Egypt — 2026

CERTIFICATES

Data Analysis Training — Tech Mind Academy

- Covered Excel, Power Query, Power BI, SQL, Python for Data Analysis, Data Visualization, and Reporting.

LANGUAGES & MILITARY STATUS

Languages: Arabic (Native), English (Very Good)
Military Status: Exempted

Ex Manager: Mohamed M. Soliman, Arab International Bank