

Abdelrahman Habeeb

Data Scientist | AI & Machine Learning Engineer

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Professional Summary

Results-driven **Data Scientist** with **4+ years of hands-on experience** in government digital transformation, healthcare AI solutions, and enterprise systems. Proven expertise in **Python, Machine Learning, SQL, and Business Intelligence**, achieving measurable impact including **77% reduction in processing time, 25% improvement in reporting accuracy**, and resolution of **8,500+ citizen cases**. Experienced in collaborating with international organizations including the **World Bank**. Currently pursuing an MSc in Data Science and co-founding an AI-driven startup.

Skills & Core Competencies

Data Science & AI: Machine Learning, Deep Learning, NLP, Statistical Analysis, Feature Engineering

Programming: Python, SQL, R, JavaScript, HTML/CSS

Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV, LangChain, Hugging Face

Data & BI Tools: Power BI, Tableau, Pandas, NumPy, Matplotlib, Excel (Advanced), SPSS

Databases: MySQL, PostgreSQL, SQLite, MongoDB (Basics)

Cloud & Data Engineering: Microsoft Azure, Data Pipelines, Big Data Processing, DevOps

Professional Skills: Digital Transformation, Stakeholder Management, Team Leadership, Problem Solving, Communication

Professional Experience

Co-Founder & CEO

Dec 2024 – Present

EDES-IT (Startup)

- Founded and leading an AI-focused startup specializing in system development, web applications, and e-commerce platforms for diverse business needs
- Developed comprehensive business intelligence solutions enabling SMEs to make informed data-driven decisions and optimize their operations

AI Model Trainer (Remote)

Nov 2024 – Present

Outlier

- Train and validate cutting-edge AI/ML models through extensive data labeling, annotation, and comprehensive error detection processes
- Improved model accuracy by **15%** through detailed evaluation, structured feedback protocols, and iterative improvement cycles

Digital Transformation & AI Consultant

Nov 2024 – Apr 2025

Hanzo Med & Best Care Egypt

- Designed and implemented comprehensive AI-powered ERP system, successfully reducing invoice processing time by **77%** and streamlining operations
- Built robust ML classification models using Scikit-learn to automate business workflows and enhance operational efficiency
- Developed automated inventory monitoring systems and real-time financial dashboards for improved resource management

Technical Committee Member – AI Project Evaluation

Apr 2024 – Sep 2024

The Egyptian Authority for Unified Procurement (UPA) & World Bank

- Evaluated technical and financial proposals for national AI procurement tenders ensuring compliance with international standards

- Authored comprehensive evaluation reports with strategic recommendations for digital transformation initiatives

Government Complaints System Officer – Team Lead

Feb 2024 – Sep 2024

Egyptian Cabinet & The Egyptian Authority for Unified Procurement (UPA)

- Led and mentored team of 8 professionals managing Egypt's national complaints management system
- Successfully resolved **7,500+ citizen cases** including critical medical interventions requiring urgent coordination
- Built interactive Power BI dashboards to visualize complaint trends, KPIs, and performance metrics
- Implemented data-driven approaches that improved overall system efficiency by **40%**

Customer Service & Technical Support Engineer

Nov 2020 – Sep 2024

The Egyptian Authority for Unified Procurement (UPA)

- Delivered exceptional technical support to 9,000+ clients on national e-procurement platform
- Reduced problem resolution time by **70%** through systematic process optimization and automation
- Developed Python-based data analytics tools that improved report accuracy by **25%**
- Created comprehensive user guides, training videos, and presentations for 30,000+ platform users
- Trained internal staff and served as primary liaison between end-users and development teams

Training

Microsoft Data Engineer Trainee

Nov 2025 – Present

Digital Egypt Pioneers Initiative (DEPI) – MCIT & CLS

- Currently enrolled in the national **AI & Data Science Track** under the **Digital Egypt Pioneers Initiative (DEPI)**, funded by the **Ministry of Communications and Information Technology (MCIT)** and delivered by **CLS**
- Completing **93+ hours of technical training** in Data Engineering using Microsoft technologies
- Gaining hands-on experience in **SQL, Advanced Python, Data Pipelines, and Big Data Processing**
- Applying **Microsoft Azure Data Engineer Associate** skills for data storage, transformation, and deployment
- Studying **AI for Data Engineers, Prompt Engineering**, and cloud-based DevOps practices
- Developing a comprehensive **Capstone Project** demonstrating end-to-end data engineering solutions
- Attending additional modules: **Soft Skills (18 hrs), Business English (18 hrs), Freelancing (18 hrs), and Coaching (24 hrs)**

Education

Master of Science in Data Science

2024 – Present

Graduate School of Statistical Research, Cairo University

Focus Areas: Advanced Machine Learning, AI Applications, Statistical Modeling, and Research Methods

Diploma in Data Science

2022 – 2024

Graduate School of Statistical Research, Cairo University

Specialized training in Machine Learning, Data Analysis, Python, R, and Statistical Software

Bachelor of Science in Agricultural Sciences (Honors)

2016 – 2020

Al-Azhar University, Cairo

Specialization: Agricultural Economics | Strong foundation in Statistics and Research Methodology

Key Projects

FoodVision Big — Food Image Classification (PyTorch, Deep Learning)	2026
• Built and deployed an end-to-end computer vision system using EfficientNetB2 and PyTorch to classify food images into 101 categories	
• Implemented full training, evaluation, and inference pipeline with Transfer Learning	
• Deployed the model as an interactive web application using Gradio on HuggingFace Spaces	
• Achieved fast inference on CPU and designed a user-friendly demo interface	
• GitHub: https://github.com/abdrhmnr/deep-learning-by-pytorch	
RAG-Based AI Chatbot	2025 – Ongoing
• Developing enterprise chatbot using LangChain and Hugging Face	
• Implementing vector-based document retrieval	
Sign Language Recognition System	2024
• Built CNN-based real-time recognition system (80% accuracy)	
• Used TensorFlow and OpenCV	
Freelance Data Science Projects	2022 – Present
• Delivered ML solutions for automation and analytics	
• Active contributor to GitHub open-source projects	

Courses & Certifications

• Learn PyTorch: Become a Deep Learning Engineer – Udemy	Dec 2025
• IBM Data Science Professional Certificate – Coursera	
• Python for Data Science, AI & Development – Coursera	
• ALX Data Analysis Program – ALX Africa	
• Machine Learning Nanodegree – Udemy	
• Academic Research Writing – Cairo University	
• Prompt Engineering – DEPI	

Languages

Arabic: Native | **English:** Advanced (C1)