Abdelrahman Habeeb

Data Scientist | AI & Machine Learning Engineer

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Professional Summary

Data Scientist who builds data-driven solutions, reports, and practical machine learning and deep learning models. With **4+ years of hands-on experience** analyzing government operations and customer data, I specialize in taking messy, real-world datasets and turning them into clear dashboards, automated reports, and production-ready ML models. I work with **Python (Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow), SQL databases, and visualization tools (Matplotlib, Seaborn, Power BI)** to deliver solutions that actually work in production—not just notebooks. My track record includes **reducing processing time by 77%, resolving 8,500+ cases**, and building systems that teams actually use daily.

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, Pandas, NumPy, Matplotlib, Seaborn, Plotly, 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 developed machine learning components for healthcare business systems, reducing invoice processing time by **77%**
- Built ML classification models using Scikit-learn to automate business workflows and enhance operational efficiency
- Developed automated inventory monitoring systems and real-time financial dashboards using Power BI and Python
- Integrated ML models into production web applications 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: 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 for intelligent responses

Sign Language Recognition System — 2024

- Built CNN-based real-time recognition system achieving 80% accuracy
- Used TensorFlow and OpenCV for computer vision processing

Freelance Data Science Projects — 2022 – Present

- Delivered ML solutions for automation, data analysis, and business intelligence
- 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)