

Abdelrahman Habeeb

Data Scientist | AI & Machine Learning Engineer

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 abdrhmnr.github.io

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
<i>The Egyptian Authority for Unified Procurement (UPA) & World Bank</i>	
<ul style="list-style-type: none"> 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
<i>Egyptian Cabinet & The Egyptian Authority for Unified Procurement (UPA)</i>	
<ul style="list-style-type: none"> 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
<i>The Egyptian Authority for Unified Procurement (UPA)</i>	
<ul style="list-style-type: none"> 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
<i>Digital Egypt Pioneers Initiative (DEPI) – MCIT & CLS</i>	
<ul style="list-style-type: none"> 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
<i>Graduate School of Statistical Research, Cairo University</i>	
Focus Areas: Advanced Machine Learning, AI Applications, Statistical Modeling, and Research Methods	
Diploma in Data Science	2022 – 2024
<i>Graduate School of Statistical Research, Cairo University</i>	
Specialized training in Machine Learning, Data Analysis, Python, R, and Statistical Software	
Bachelor of Science in Agricultural Sciences (Honors)	2016 – 2020
<i>Al-Azhar University, Cairo</i>	
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)