ABD ELRAHMAN AYMAN ELDGWY

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OBJECTIVE

Motivated and detail-oriented fresh graduate with a strong academic foundation in Machine Learning, Deep Learning, Data Science, and Computer Vision through hands-on coursework and technical projects. Eager to apply my knowledge in real-world projects, solve practical problems using data, contribute to impactful AI solutions, and continuously learn and grow in a professional environment. I'm currently seeking an entry-level role as a Machine Learning Engineer or Data Scientist where I can put my skills into action and learn from industry experts, and keep improving my skills in a professional and challenging environment.

EDUCATION

Bachelor of Artificial Intelligence, Menoufia University   2021-2025
GPA:3.1
The coursework provided a strong foundation in Machine Learning, Deep Learning, Data Analysis, Robotics, and Programming.

SKILLS

Technical Skills	- Programming Languages: Python, SQL, C++, Linux bash
	- Machine Learning: Scikit-learn, XGBoost, Regression - Classification Models, Model
	- Deep Learning: TensorFlow, Pytorch, Keras, CNNs, RNNs, NLP with Transformers
	- Data Handling - Visualization: Pandas, NumPy, Matplotlib, Seaborn, Power BI
	- Cloud - MLOps: AWS (SageMaker, S3, EC2), Hugging Face, Git
Soft Skills	Problem Solving, Communication, Collaboration, Active listening

EXPERIENCE

Graduation Project – MeetMatch: AI-Powered Interview Platform   March 2025
Faculty of AI   *Menoufia University*

- Developed a smart B2B interview simulation platform using LLMs (GPT, Gemini) to automate candidate screening based on CV and seniority level.
- Integrated real-time voice transcription (AssemblyAI) and emotionally intelligent AI feedback to simulate human-like interview experiences.
- Implemented cheating detection via webcam tracking using MediaPipe, monitoring eye movement and behavioral patterns.
- Built a real-time analytics engine to track question timing, difficulty, and candidate progression, visualized in an HR dashboard.
- Designed a secure Django + PostgreSQL backend with APIs for session management, CV parsing, and dynamic question generation.

AI Chatbot for Sentiment Analysis – Rwad Masr Digital Initiative   Nov 2024
Ministry of Communications IT   *Egypt*

- Built an interactive NLP-based chatbot for real-time sentiment analysis of user messages.
- Fine-tuned a pre-trained transformer model from Hugging Face on a labeled sentiment dataset.
- Integrated the model into a web-based interface using Django, allowing live prediction and user interaction.
- Deployed the full solution locally and tested on multiple sentiment classes (positive, negative, neutral).
- Optimized model performance by managing tokenization, model serialization, and efficient loading of fine-tuned weights for fast inference in production.

PROJECTS

Question Generator with RAG & Streamlit. Built an intelligent question-generation app using Retrieval-Augmented Generation (RAG) with LangChain and OpenAI models. Integrated document upload, embedding with FAISS, and dynamic question creation based on selected topics. Developed a user-friendly frontend using Streamlit to control parameters and display results interactively.

Real-Time Emotion Detection using Computer Vision. Developed a real-time facial emotion recognition system using OpenCV and deep learning.

Classified emotions into categories (Happy, Sad, Fear) using a CNN model trained on labeled facial datasets.

Power BI Dashboard – Healthcare Waitlist & Performance Analysis.

Designed an interactive Power BI dashboard to analyze patient waitlists across case types, age groups, and medical specialties over a 3-year period (2018–2021).

Visualized key KPIs including latest waitlist size, average/median wait times, and trend analysis by month, quarter, and year.

EXTRA-CURRICULAR ACTIVITIES

- High Board Member – AI Entrepreneurship Club, (Menoufia University)
- Team Lead – NASA Space Apps Challenge, Shebeen El-Kom (Menoufia U.)
- Community Outreach and events Volunteer – STEM Entrepreneurship Center (STEM EC)

COURSES

- (365 Careers) Data Scientist Course Jan 2022 - Mar 2022
- Machine Learning Intern — NTI-National Teaching July 2022 - Aug 2022 Institute
- Git & GitHub — Almdrasa.com Jan 2023