Reham Elkasaby

AI/ML Engineer

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GitHub | LinkedIn

PROFILE

AI/ML Engineer with solid academic training and practical experience in machine learning, NLP, and deep learning. Completed a 9-month AI/ML diploma from ITI with hands-on projects spanning document clustering, hate speech detection, and predictive modeling. Skilled in Python, TensorFlow, Pytorch, and scikit-learn, with experience building and deploying end-to-end ML pipelines. Passionate about LLMs, Generative AI, and prompt engineering with a foundational understanding of transformer architectures.

Passionately interested in joining the market to contribute to cutting-edge AI solutions and grow within a visionary tech environment.

EDUCATION

June 2025	**9-Month Diploma (ITI) Information Technology Institute —(MCIT) Ministry of Communications and Information Technology, AI track, Mansoura Branch**
June 2024	**B.Sc. in Computer and Control Systems Engineering — Mansoura University** Graduated with an Excellent with Honor degree

Internships

Oct 2023	**Computer Vision Intern** Information Technology Institute (ITI) Developed computer vision applications using Python and OpenCV.

SKILLS & ABILITIES

- **Programming**: Python, C++, OOP
- **Machine Learning & Deep Learning:** Regression, Classification, Clustering, CNNs, RNNs, LSTMs, Transformers (basic), Model Evaluation
- **Computer Vision**: OpenCV, Image Processing, Object Detection, Tesseract, VGG
- **Data Analysis:** Data Wrangling, Feature Engineering, Exploratory Data Analysis
- **Libraries:** scikit-learn, TensorFlow, Keras, PyTorch (basic), Hugging Face (exploring), OpenCV, Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup, Selenium
- **Tools & Frameworks**: Jupyter, Visual Studio Code, Git, GitHub, Power BI, Streamlit, MongoDB, SQL, Tableau, Excel

PROJECTS

RAG Chatbot for S3y (Graduation Project):

- Built a fully functioning knowledge-retrieval chatbot for a freelancing platform S3y, using Gemini API, qdrant vector database and Flowise platform.

OCR App Authentication:

- Built a full pipeline to Authenticate an ID for a freelancing platform, using OpenCV, SIFT,VGG, Tesseract.

Multiclass Prediction of Obesity Risk:

- Built and deployed a full ML pipeline including preprocessing, modeling, and evaluation.

Twitter Hate Speech Detection:
- Applied NLP techniques and machine learning to detect hate speech in tweets.

Document Clustering with NLP

- Used vectorization and clustering to analyze and group text documents.

Extracurricular Activities

Sep 2022	Head of Training Committee	ICPC, MU
Sep 2021	Logistic Member	ICPC, MU
Jan 2020	Data Science Member	CATreloaded, MU

LANGUAGES

Arabic (Native), English (Proficient)

PERSONAL SKILLS

Teamwork, Communication, Analytical Thinking, Public Speaking, Problem Solving, Business Development, Creativity.