

Hana Tarek Ismail Mossa

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Objective

Motivated Machine Learning Engineer with a solid foundation in Python and hands-on experience in AI projects. Passionate about building innovative ML/DL solutions and deploying them into real-world applications. Seeking opportunities to apply technical skills and continuously grow while contributing to impactful projects.

Education

B.Sc. in Computer Science (AI Department) – Mansoura University

2021 – 2025 | GPA: 2.66/4.0

- Graduation Project: ["**AI-Powered Health Assistant**" – **Grade A**. Developed an intelligent assistant using NLP and machine learning to help users with symptom checking and provide healthcare-related information.]

- Relevant Coursework: Machine Learning, Natural Language Processing, Neural Networks, Computer Vision, Data Mining.

Projects

- Face Detection – Built a face recognition system using OpenCV and Mediapipe, achieving accurate real-time detection.
- OCR Tool – Extracted text from scanned documents and images using Tesseract OCR and OpenCV.
- Named Entity Recognition (NER) – Implemented entity extraction using SpaCy to improve data processing workflows.
- Text Summarization – Developed a summarization model using BART for efficient information retrieval.
- Human Verification System – Designed a bot-detection solution analyzing behavior and face recognition with DeepFace.
- Emotion Recognition – Real-time classification of facial expressions using OpenCV & DeepFace.
- Traffic Light Detection – Implemented YOLOv3 model for detecting traffic light states, aiding autonomous navigation.
- Chatbot (Gemini API) – Developed an interactive chatbot with Gemini API and Streamlit for user assistance.

Skills

- Programming: Python
- ML/DL Frameworks: Scikit-learn, TensorFlow, Keras, PyTorch
- Data Science: Data Analysis, NLP, Computer Vision, Data Visualization
- Tools & Libraries: Git, Streamlit, OpenCV, Mediapipe, Tesseract OCR

Experience & Training

Machine Learning & AI Training – Route Academy

- Gained practical experience in supervised/unsupervised learning, model evaluation, and deployment.

Languages

- Arabic: Native
- English: Intermediate (B1) – currently improving