MOHAMED SALAMA
AI, ML Engineer

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Profile

Enthusiastic AI Engineer with a strong background in artificial intelligence, machine learning, and deep learning. Skilled in developing and optimizing AI-driven solutions, with hands-on experience in various AI frameworks for building scalable models. Successfully completed the AI track at the Information Technology Institute (ITI), where I deepened my expertise in advanced AI techniques. Passionate about problem-solving, Data Science, Machine Learning, and LLMs, and seeking opportunities to contribute to impactful, innovative projects. I am eager to join a forward-thinking team where I can continue growing, contribute meaningfully, and help drive success through cutting-edge technologies.

Education

- **9-Month Diploma (ITI) Information Technology Institute, (MCIT) Ministry Of Communications And Information Technology, Artificial Intelligence and Machine learning track, Mansoura Branch.** (Oct 2024 – June 2025)

- **Bachelor's in Artificial Intelligence, Kafr-El-Sheikh University, Faculty of Artificial Intelligence | GPA: 3.65 | (2020 – 2024)**

Technical Skills

- **Programming Languages:** Python, C, C++, SQL, NoSQL
- **Programming Concepts:** Object-Oriented Programming (OOP), Data Structures
- **Mathematics & Foundations for AI:** Mathematics for AI, Time Series Analysis, optimization
- **Data Analysis & Visualization:** Data Visualization, Power BI, Dash
- **Machine Learning & AI:** Machine Learning, Deep Learning, Reinforcement Learning, Recommender Systems, Natural Language Processing (NLP) & LLMs, Computer Vision
- **M Deployment:** MLOps, Cloud Infrastructure for Big Data, Big Data Processing, Spark & PySpark
- **Development Tools & Environment:** Git & GitHub, Linux, Agile Methodology
- **Gen-AI:** LLMs, Prompt Engineering, RAG, Agentic AI, CrewAI, LangGraph, LangChain, n8n

Natural language: Arabic (First Language) | English (Second Language → B2)

Internship & Scholarship

- **Computer Vision Intern - ITI scholarship (July 2023 – August 2023)**

  - Learning the basics of computer vision.
  - Learn the core of computer vision.
  - Learn how to make advanced projects from A to Z using computer vision.
  - Learn how I can use computer vision in real life.

- **AI&ML intern at Mentorness (January 2024 – March 2024) certificate**

  - Blood disease prediction (GitHub)
  - Stock market forecasting (GitHub)

Experience & Work

Software Engineer at G2I (Sep 2024 – Mar 2025)

Remotely

- Supported the training and improvement of AI models by refining responses, rewriting Python code, and optimizing prompt structure.

Publications & Research

- **Human Gait Recognition for Security Systems" - International Technology and Artificial Intelligence Forum (ITAF), Canadian International College (Oct 2024)   Paper-link**
  - Developed a novel security system utilizing computer vision and AI to analyze human gait patterns for non-intrusive identification.
  - Collaborated with a team of 7 researchers to achieve high accuracy rates in human identification through walking pattern analysis.

Project

- **Intelligent Security System Project (Graduation Project)**
    - *Role: Team Leader*
    - Designed and implemented an AI-powered security system Integrated into a cohesive desktop application:
        - Gait recognition ([GitHub](#))
        - Aggressive behavior detection ([GitHub](#))
        - Car license plate recognition
        - Face recognition in crowded environments ([GitHub](#))
        - Fall detection

- **Clean Code Rewriter ([GitHub](#))**
    - Technology: **Agentic AI** using CrewAI | Streamlit | langchain_google_genai.

- **Smart Recruiter Assistant ([GitHub](#))**
    - Technology: **RAG** using LangChain.

- **POS Tagging with Arabic Dataset ([GitHub](#))**
    - Technology: Hugging Face | Arabic Bert models | Fine-tuning.

- **Credit Score Classification ([GitHub](#))**
    - Technology: Machine Learning models | Data preprocessing techniques.

- **Multi-Class Prediction of Obesity Risk <u>Team project</u> ([GitHub](#))**
    - Role: Developer
    - Technology: Machine Learning models | Data preprocessing techniques | Tableau.

- **Hate Speech Classification ([GitHub](#))**
    - Technology: NLP preprocessing (cleaning, tokenization, embedding, etc...) | Sequential models (RNN, GRU, and LSTM).

- **Document clustering based on Wikipedia ([GitHub](#))**
    - Technology: NLP preprocessing | Dimensionality reduction | Clustering techniques.

- **Whether Image Recognition <u>Team project</u> ([GitHub](#))**
    - Role: Developer
    - Technology: Vision Transformers using Hugging Face | Prertained CNN models | CNN model architecture.

- **Wind Speed Forecasting ([GitHub](#))**
    - Technology: Time Series techniques | Deep learning (RNN,LSTM)