

# Farah ElMashad

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## Profile

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A quick learner with strong analytical thinking and a solid foundation in software development. Highly motivated to explore data analysis and artificial intelligence, eager to develop skills in machine learning, statistical analysis, and data-driven decision-making. Passionate about solving complex problems and continuously expanding my knowledge through hands-on experience and innovative projects. Seeking opportunities to learn, grow, and contribute in a dynamic environment while building expertise in AI and data analysis.

## Education

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<b>Ain Shams University</b> , Computer Science	Sept 2023 – Present
• GPA: 3.95/4.0	
• <b>Relevant Coursework:</b> Computer Architecture, OOP, Data Structures, AI, Database Management Systems, Probability, Statistical Analysis	

## Experience

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<b>AI &amp; Data Science Training</b> DEPI – Ministry of Communications <i>Microsoft Machine Learning Engineer Track</i>	June 2025 – Present
• Intensive 6-month program covering end-to-end machine learning and AI workflows using Microsoft Azure tools. • Key topics: Prompt Engineering, Python, Data Preprocessing & Visualization, Machine Learning, Deep Learning, NLP, Computer Vision, MLOps, and Azure AI Fundamentals.	

  

<b>Internship</b> HSBC – Cairo, Egypt	July 2024 – Aug 2024
• Collaborated on a group project analyzing the impact of social media on the banking industry, working alongside bank sponsors to assess digital trends and strategies. • Delivered a final presentation of the project findings and actionable recommendations to the CEO of HSBC Egypt, showcasing research, analysis, and professional communication skills. • Participated in training sessions led by senior executives gaining valuable insights into strategic decision-making, marketing innovations, and operational excellence in the banking industry. • Enhanced teamwork, data analysis, and presentation skills through practical assignments and workshops.	

## Projects

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<b>Courses Registration System</b> — C++   WinForms (GitHub)	
• Developed a desktop application for managing course registration, grade tracking, and prerequisite verification	
• Implemented student features including course search, registration with prerequisite checks, grade viewing, and printable academic reports showing course details and GPA	
• Created administrator functionality for uploading course descriptions, setting prerequisites, and managing student grades	
• Designed a user-friendly GUI to enhance usability	
<b>Car Price Prediction</b> — Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Streamlit) (GitHub)	
• Performed exploratory data analysis (EDA) using statistical techniques and visualizations to uncover insights and inform preprocessing steps.	
• Cleaned, preprocessed, and scaled datasets, including feature selection to optimize model inputs.	
• Developed and fine-tuned regression models: Linear Regression, Support Vector Regression (SVR), Random Forest, and Gradient Boosting.	
• Built and deployed an interactive Streamlit app enabling users to input car details and receive real-time price predictions.	

### **Machine Learning from Scratch — Python (Pandas, NumPy) (GitHub)**

- Implemented core ML algorithms from scratch using only Pandas and NumPy, focusing on building model logic and training processes manually.
- Validated the models by comparing their accuracy with Scikit-learn versions, achieving nearly identical results.

### **Vezeeta Medical Database — SQL | Oracle Forms (GitHub)**

- Designed ER schema and implemented SQL tables for a healthcare database managing patients, doctors, appointments, pharmacies, facilities, and medicines
- Developed an Oracle Forms UI to enable efficient interaction with the database for scheduling, prescriptions, and medicine orders

## **Technologies**

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**Languages:** Python, Java, C++, VHDL

**Data Handling & Manipulation:** Pandas, NumPy

**Data Visualization:** Matplotlib, Seaborn, Plotly

**Machine Learning Libraries:** Scikit-learn, TensorFlow, Keras

**Web Scraping:** Selenium, Scrapy

**Databases:** SQL (MySQL, Oracle, SQLite)

**Web Technologies:** HTML, CSS

**Version Control:** Git, GitHub

**Tools & Platforms:** VS Code, Jupyter Notebook, Google Colab, Streamlit, IntelliJ

**ML Concepts:** Machine Learning Concepts Supervised & Unsupervised Learning, Regression, Classification, Clustering, Feature Engineering, Model Evaluation, Regularization, Hyperparameter Tuning, EDA

## **Languages**

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**English** Proficient

**Arabic** Native

**French** Intermediate