MOHAMED HESHAM

Student

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PERSONAL OBJECTIVES

I am a dedicated computer engineering student passionate about leveraging my skills in programming and data analysis to use it in the data/machine learning fields. I have hands-on experience with data analysis using excel and various programming languages including C++, Python, and Java, and have successfully completed multiple projects in AI and robotics. I am committed to continuous learning and development in the tech field, with a strong foundation in practical applications.

SKILLS

Technical Skills:

Proficient in C++ programming, used it to make various console applications projects and robotics projects made using Arduino programmed with C++.

Proficient in Java programming, used it to contribute to making a custom desktop pharmacy system for it to be used locally in pharmacies to help further the digitalization movement.

Decent knowledge in Python with various projects made in machine learning models using it.

Decent knowledge in SQL, used it to contribute to making a database-based online supermarket store website.

Decent knowledge in Machine Learning algorithms and less knowledge in deep learning algorithms, used them to make various AI models especially in image processing using CNN and NLP.

Decent Knowledge in Data Analysis using Excel used it to explore and clean several data sets and make custom Dashboard for better visualization and insightful decisions.

Familiar with using Git & GitHub

Soft Skills:

Great presentation skills trained through acting in a big play at a young age, making several English exhibitions for my projects during my secondary stem school period, and participating in college projects' exhibitions almost every semester.

Team working skills trained through making several projects in both my secondary school and college in addition to participating in other extracurricular activities.

Communication skills which came from travelling across several governorates In Egypt and living there by myself for some time which make me learn how to talk and deal with people from different places and traditions.

Critical thinking skills which came from making that many projects in secondary school and college, in addition to making my own extracurricular activity (small team) in my secondary school.

EDUCATION

Bachelor of Computer Engineering
Helwan University
2022 – 2027

Courses

Data Analyst Specialist Program
Digital Egypt Pioneers Initiative
Focused on data analysis fundamentals, data visualization, cleaning and dashboards modeling.

July 2025 – Present

Supervised Machine Learning: Regression and Classification
DeepLearning.AI
Covered regression and classification algorithms, model evaluation metrics, and best practices.

May 2025

AI Track Training Program
Mindset Training Company
Explored machine learning & deep learning methodologies along with best practices in model evaluation.

August 2024 – September 2024

C++ Programming Workshop
Beta Academy
Intensive training on core C++ concepts, object-oriented programming, and data structures.

July 2023

Robotics Workshop
Beta Academy
Hands-on experience with sensor integration, Arduino programming, and circuit basics.

July 2023

LANGUAGES

Natively speaks Arabic

Excellent in speaking English (B2-C1)

PROJECTS

Data Analysis Projects:

- **Sales Dataset Analysis** made a full sales dataset analysis through exploring, cleaning, modeling and making an interactive dynamic dashboard all using excel.
- **Ecommerce Dataset Analysis** made a dataset analysis through exploring, cleaning, modeling and making an interactive dynamic dashboard all using excel.

Machine Learning Projects:

- **Convolutional Neural Network for Chest X-Ray Classification** Developed a Python-based CNN (TensorFlow/Keras) to classify chest X-ray images as Normal or Pneumonia helping radiologist increase their diagnosis accuracy.
- **LSTM-Based Next-Word Prediction Model** Built and trained a Python NLP model using LSTM networks (TensorFlow) to predict the next word/words trained on about 999+ iPhone reviews.

Software Engineering/Robotics projects:

- **Offline Pharmacy E-Commerce Platform** Designed and implemented a Java application inspired by Amazon, shopping cart management, and checkout workflows.
- **Console Library Management System** Created a C++ console application with file-based storage to automate book inventory tracking, user registration, and borrowing/return processes.
- **Arduino Smart Garage System** Engineered an automated garage door controller using Arduino, integrating LDR sensors for vehicle detection
- **Maze-Solving Robot** Developed an Arduino-driven robot equipped with line-following sensors and decision-making algorithms to autonomously navigate and solve maze challenges.