

Aya Swelam

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Cairo, Egypt

OBJECTIVE

A Fresh Computer Engineering graduate with a major in Software Systems from Ain Shams University, dedicated to advancing open-source systems with innovative machine learning solutions. Skilled in data science and software engineering, with a strong focus on creating impactful ML technologies to address real-world challenges and foster collaborative growth in the open-source community.



EXPERIENCE

- **Sprints**
Mobile development trainee Jul 2021 - Aug 2021
- **WE**
Cloud Computing Trainee Jul 2022 - Jul 2022
- **QNBAA**
Software Engineering Intern Aug 2022 - Sep 2022
- **WE**
Big Data Intern Jun 2023 - Aug 2023
- **AIM Technologies**
Software Engineering Intern Jun 2023 - Sep 2023
- **Digital Egypt Pioneer Initiative (DEPI)**
Generative AI Professional Mar 2024 - Present

EDUCATION

- **Bachelor of Computer Engineering and Software Systems** 2019 - 2024
Ain Shams University, Faculty of Engineering, Credit Hours system
University of East London, Faculty of Engineering
 - GPA: 3.37/4.00
 - Graduation Project :
Navigate In My Lens: The project proposed an efficient framework for detecting objects using YOLOv8, voice recognition techniques like flutter TTS and OCR techniques on our customized dataset covering the credit building in Ain Shams University

PROJECTS

- **ASCC for help Website:** 2022
Technical skills: [HTML, CSS, Jira]
 - The goal was to make a web application for ASCC organization to facilitate their work among each other and even with their clients.
- **Airbnb Challenge :** 2022
Technical skills: [Python, matplotlib, seaborn, Pandas, Numpy, sklearn]
 - The goal was to predict in which country a new user will make his or her first booking from Airbnb travelers
- **University Database System :** 2022
Technical skills: SQL
 - The goal was to provide a database system for a huge domain like a university, as the university consists of students and a staff containing the doctors, Teacher assistants, student affairs, finance section, managers of each department, and security system
- **Leaf Classification :** 2023
Technical skills: [Python, matplotlib, seaborn, Pandas, Numpy, sklearn, Machine Learning, Deep Learning] 
 - The goal was to determine the leaf based on the features given like shape margin, based on the given features use CNN to determine the leaf type.
- **Credit Scoring model :** 2023
Technical skills: [Python, matplotlib, seaborn, Pandas, Numpy, sklearn, Machine Learning] 
 - The goal was to predict creditworthiness based on various features such as payment history, income, and credit mix.

- **Disease Prediction Model :** 2023
Technical skills: [Python, matplotlib, seaborn, Pandas, Numpy, sklearn, Machine Learning] [🌐]
 - The goal was to predict the prognosis of diseases using a dataset containing features like itching, joint pain, and more, trained using SVM, MLP, DT, and RF classification algorithms
- **CarPool Service :** 2023
Technical skills: [Flutter, Dart] [🌐]
 - The goal was to predict the prognosis of diseases using a dataset containing features like itching, joint pain, and more, trained using SVM, MLP, DT, and RF classification algorithms
- **Create your own image classifier :** 2024
Technical skills: [Pytorch, CNN] [🌐]
 - The goal was to build and train an image classifier to recognize different species of flowers. The dataset used consists of 102 flower categories.
- **Product description using LLMs :** 2024
Technical skills: [Pytorch, CNN, ResNet-18, LLAMA-3]
 - The main purpose of this project is to classify products into specific categories and then an LLM (Large Language Model) with prompt engineering (using Llama 3) is utilized to analyze and generate a product description.

COURSES

- AI Programming with Python, Udacity (2024)
- Software Diploma, Siemens (2023)
- Deep Learning Specialization (2/5), Coursera (2023)
- Machine Learning Specialization, Coursera (2023)
- BI Development, ITI (2023)
- Full Stack web development , GDSC (2023)
- Intro To Robotics, ITI (2022)
- Intro To Machine Learning, Udacity (2022)
- Data Analysis Nanodegree, Udacity (2022)

SKILLS

- **Programming Languages:** Python, C++, Java, HTML, CSS, SQL, Dart, Java script
- **Frameworks and Libraries:** TensorFlow, Keras, Scikit-learn, Matplotlib, Seaborn, Numpy, OpenCV, Pandas
- **Tools:** Git, Jira, Visual Studio Code, PyCharm, Power BI, Tableau, Flutter
- **Soft Skills:** Teamwork, Problem Solving, Time Management, Communication

TECHNOLOGIES

- **Machine Learning:** Supervised and Unsupervised Learning, Reinforcement Learning
- **Deep Learning:** CNN, LSTM, GANs, NLP Basics
- **Web Development:** Front-end Development
- **Database Management:** SQL, MySQL, MongoDB Basics

EXTRACURRICULAR ACTIVITIES

- **Technical Participant** Jan 2020 - Apr 2020
Energia Powered [🌐]
- **Team Leader** Jun 2022 - Sep 2022
AIESEC Ain Shams [🌐]
 - Responsible for organizing the events that the organization must take place in
 - Responsible for organizing the booths
- **IT Team member** Jun 2023 - Sep 2023
Google Developer Student Club [🌐]

ADDITIONAL INFORMATION

Languages: Arabic (Native), English (IELTS Band 7), French (Beginner level A2)