

YASSMIN KHAFAGA

AI Engineer | Software Engineer

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Professional Summary

As a passionate and driven **Computer Science student** in my fourth year, I have experience in **software engineering** and **front-end development**. Currently focusing on **Machine Learning (ML)**, **Artificial Intelligence (AI)**, and **Data Visualization**.

skills

AI & ML	SOFTWARE & FRONT-END	SOFT SKILLS
<ul style="list-style-type: none">PYTHON ,PYTHON LIBRARIES: NUMPY, PANDAS, MATPLOTLIB, SCIKIT-LEARN, TENSORFLOW, KERASMATHEMATICS AND STATISTICSDATA ANALYSIS: POWER BI , TABLEAUDATA PREPROCESSING, VISUALIZATIONMACHINE LEARNING ALGORITHMSMODEL DEPLOYMENT ,MODEL EVALUATION	<ul style="list-style-type: none">DATABASES SQLHTML,CSS, JAVASCRIPTBOOTSTRAPREACT.JSGIT, GITHUBPROGRAMMING LANGUAGES: C++, CALGORITHMSDATA STRUCTURESEXCEL ,WORDFIGMA FOR UI/UX DESIGN	<ul style="list-style-type: none">TEAMWORKCOMMUNICATIONPROBLEM SOLVINGFLEXIBILITYRESPONSIBILITY.

Education

- Bachelor of Science in Computer Science** (Expected Graduation: 2025)
Helwan University - Faculty of Computer and Artificial Intelligence

Certifications

- Advanced Front-End Web Development with React JS** ITI Training | September 2023
Completed a 60-hour training program covering advanced concepts in **React.js**.

Languages

Arabic: Native

English: Very Good

Professional Experience

Machine Learning Technical Support (Volunteer) IEEE | 2023-2024

- Provided technical guidance for **machine learning** projects.
- Assisted in troubleshooting and optimizing ML workflows.

Web Development (Participant) MSP | 2022

- Gained practical knowledge of web technologies including **HTML**, **CSS**, and **JavaScript**.
 - Worked on small-scale web projects as part of a learning program.
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Projects

AI and ML Models: Hands-on projects involving **data analysis**, **visualization**, and training of machine learning models.

Web Development: Created interactive front-end designs using modern web frameworks like **React.js** and **Bootstrap**.

- **Car Type Classification**

[Repo](#)

ResNet architecture from scratch, Utilized Xception and DenseNet as pre-trained models. Evaluated the models using metrics such as accuracy, confusion matrix visualization, recall, precision, F1-score, ROC, and AUC visualizations.

- **Malaria Detection Project**

[Repo](#)

Implemented preprocessing, **logistic regression**, and **K-Means clustering** models .

- **Character Recognition Project**

[Repo](#)

Built an AI model with a team to recognize characters using a dataset from **Kaggle**. Integrated a **GUI** to display the results, enhancing user interaction.

- **Machine Learning Notebooks**

[Repo](#)

Housing Dataset: Preprocessed data and applied a **linear regression** model to predict housing prices.

Titanic Dataset: Conducted preprocessing and utilized a **logistic regression** model to predict survival.

- **Movies Website**

[Repo](#)

Designed a website with a team to showcase movies and series after completing a 60-hour **React.js** training at ITI. Utilized **React**, **Bootstrap**, **HTML**, **CSS**, and **JavaScript**.

- **Special Needs Website**

[Repo](#)

Developed a website to assist people with special needs by providing access to rehabilitation centers and smart tools within a smart city. Built using **HTML**, **CSS**, and **JavaScript**.