

Arwa ibrahim mohamed

Computer vision Engineer

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LinkedIn: [LinkedIn](#) | **GitHub:** [GitHub](#)

PROFESSIONAL SUMMARY

Passionate about Artificial Intelligence with a focus on Computer Vision, I am eager to apply my growing experience in machine learning and deep learning projects within innovative environments. I competed in ECPC 2022, where I developed competitive programming skills and applied my technical expertise. As the Vice President of the IEEE SHA Technical Community for the past three years, I have actively led and contributed to numerous technical initiatives. Committed to continuous growth, I stay updated on the latest advancements in AI and look forward to leveraging my expertise to drive innovation and contribute to dynamic, forward-thinking teams.

EDUCATION

EL-Shrouok Academy: Computer Science

2022 – 2025

- Major: Computer Science .
- GPA: Still a student

Artificial Intelligence Program Information Technology Institut(ITI) (1 month)

2022 – 2025

- Studied fundamental concepts of Artificial Intelligence.
- Gained proficiency in Python and NumPy for data manipulation.
- Explored Probability and Statistics for Machine Learning.
- Learned Linear Algebra and Numerical Optimization techniques for Data Science.
- Conducted Data Preparation and Exploration.
- Introduced to Machine Learning principles.
- Studied Neural Networks and Deep Learning concepts.

EXPERIENCE

instructor workshop front-end in IEEE.sha

Sep 2021 - Aug 2022

- Trained students in foundational front-end development principles.
- Focused on technologies such as HTML, CSS, and JavaScript.
- Engaged students in hands-on projects to enhance skills in user interface development.

supervisor workshop front-end in IEEE.sha

Sep 2022-Aug 2023

- Managed the front-end workshop and organized educational activities.
- Reviewed code and helped students improve their projects.
- Motivated students to participate actively with support and feedback.
- Coordinated instructors and ensured smooth sessions.
- Improved course content and developed engaging teaching methods.

instructor python in Robogramming Academy

Jul 2023 – Oct 2023

- Taught children aged 8 to 18 years, focusing on developing their programming skills.
- Collaborated with a multidisciplinary team to determine course priorities and student needs.
- Designed tests, projects, and activities to maximize student benefit.
- Conducted code reviews and provided feedback to enhance project quality.

vice head technical in branch IEEE.sha

Sep 2023 - Aug 2024

- Supported the organization of workshops and events to enhance members' technical skills.
- Collaborated with team members to ensure effective communication and execution of technical initiatives.
- Engaged with members to gather feedback and improve program offerings.
- Contributed to the overall strategic planning and development of technical activities.

Programming Competition

ACM - Egyptian Collegiate Programming Contest (ECPC) 2023

- **Skills developed:** Problem-solving, algorithm design, teamwork, time management

SKILLS

- **Programming Languages:** Python, C++, C# , HTML ,CSS
- **Machine Learning:** Supervised/Unsupervised Learning, Deep Learning, NLP, Reinforcement Learning
- **Libraries & Frameworks:** Scikit-learn, Keras, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn
- **Tools & Platforms:** Jupyter , PyCharm , VS Code , Colab , Git&Github , figma
- **Data Analysis:** Data Preprocessing, Feature Engineering, Model Evaluation
- **Databases:** MySQL
- **Soft Skills:** Problem Solving, Leadership, Teamwork, Communication, Ethical Work Commitment

CERTIFICATIONS

- **Machine Learning with Python** — IBM
- **Figma** — almentor
- **Computer vision & deep learning** — Kaggle
- **AI fundamentals** — IBM
- **Date science with python** — simplilearn
- **AI Everyone** — ITI
- **Git and GitHub** — almdrase
- **Python (Basics)** — GDSC
- **Additional certifications**

PROJECTS / OPEN-SOURCE

Data.science-Titanic-Survivals-Prediction

- Developed a machine learning model to predict passenger survival on the Titanic based on demographic and travel information. Applied data preprocessing techniques such as handling missing values and encoding categorical variables. Utilized logistic regression, decision trees, and other classification algorithms to achieve accurate predictions. Evaluated model performance using cross-validation and accuracy metrics. [GitHub Link](#)

Breast-Cancer-data-science

- Worked on a machine learning model to analyze breast cancer data, aiming to predict whether a tumor is benign or malignant. Applied data preprocessing techniques such as cleaning data and handling missing values. Used classification algorithms like logistic regression and decision trees to improve prediction accuracy. Evaluated the model using metrics such as accuracy and cross-validation. [GitHub Link](#)

Cancer Prediction

- Designed a classification model to predict cancer outcomes based on patient data. [GitHub Link](#)

House Price Prediction

- Built a regression model to estimate house prices based on various housing features. [GitHub Link](#)