

Hossam Fares Alsayed Metwally

Computer Science Engineer, Teaching Assistant at BFCAI

General info:

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Date of Birth: 06/05/2000

Professional Summary: -

Motivated computer science graduate and MSc student with a strong foundation in AI, Android development, and machine learning. Proven experience as a Teaching Assistant and developer of multiple AI-powered mobile and deep learning applications. Constantly seeking opportunities to integrate AI into real-world applications, especially within Android systems.

Work Experience: -

Teaching Assistant - Faculty of Computers & Artificial Intelligence (Full)

Sep 2022 – Present

- Assist in course preparation, grading, and curriculum development.
- Mentor students in programming, data structures, AI, and software engineering.
- Led lab sessions to facilitate practical application of theoretical concepts.
- Contribute to academic research with a focus on Generative AI and machine learning.
- Provide academic support and consultation to improve student outcomes.
- provided practical training in Flutter and AI

. Courses Taught: -

- NLP – third year cs – (2022-2023) 2'nd term
- Distribution System – fourth year cs – (2022-2023) 2'nd term
- Information storage – third year (medical) – (2022-2023) 2'nd term
- Design and analysis algorithms – second year (network) – (2022-2023) 2'nd term
- Data visualization – fourth year is – (2023-2024) 1'st term
- Mobile application – fourth year cs – (2023-2024) 1'st term
- Data mining - fourth year (medical) – (2023-2024) 1'st term
- Design and analysis algorithms – second year (security) – (2023-2024) 1'st term
- Computer vision - fourth year cs – (2023-2024) 2'nd term
- Data science - fourth year cs – (2023-2024) 2'nd term
- Design and analysis algorithms – second year (network) – (2023-2024) 2'nd term
- Design and analysis algorithms – second year (network) – (2024-2025) 2'nd term
- Design and analysis algorithms – second year – (2024-2025) 2'nd term
- Data science - fourth year cs – (2024-2025) 2'nd term

. Graduation projects supervision: -

- Interactive E-learning platform powered by AI – CS24-05 - (2023-2024)
 - Check Up – CS24-06 – (2023-2024)
 - Recognize injured people using computer vision – CS24-28 - (2023-2024)
 - Fire and Smoke Detection in Images and Videos – (2024-2025)
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Education: -

MSc Computer Science

Faculty of Computers & Artificial Intelligence, Benha, Egypt

Sep 2023 – Present

BSc Computer Science

Faculty of Computers & Artificial Intelligence, Benha, Egypt

Sep 2018 – Sep 2022

- Accumulative Rating: Excellent with Honor (90.8%).
- Major: Computer Science.

Erasmus+ Scholarship in Computer Science

Faculty of information technology, Pannonia, Hungary

Sep 2024 – Feb 2025

- Participated in an international exchange program focused on advanced computer science studies.
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Technical Skills: -

- **Machine Learning & AI:** TensorFlow, Scikit-learn, Keras, Deep Learning, Supervised/Unsupervised Learning, NLP.
 - **Programming Languages:** Python, Java, C++, MySQL.
 - **Mobile Development:** Android Studio (Java), Flutter, Firebase
 - **Data Analysis & Visualization:** NumPy, Pandas, Seaborn.
 - **Tools:** Jupyter Notebooks, VS Code, Spyder.
 - **Other:** Data Preprocessing, Model Evaluation, Feature Engineering.
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Courses and certifications: -

HUAWEI-HCIA-AI TTTC8, AI Course.

Oct 2022

NTL Java Programming Specialization, Java Course.

Jan.2020

Python IEEE Courses Data Camp Python Course (Online).

Sept 2020

Android IEEE Courses Android Udacity Course Android Udemy Course Android Course (Online).

2020-2021

Cisco CCNA V7, Introduction to Networks.

Feb 2022

Projects: -

Deep-Learning-Models-for-Classification: -

- **Brain Tumor Classification** — Developed a deep learning model for accurate classification of brain tumors using medical imaging to assist diagnostic processes. [GitHub Link]
- **Retinal OCT Classification** — Created a deep learning system to classify retinal OCT scans, enabling early detection of various eye diseases. [GitHub Link]
- **Skin Cancer Classification** — Implemented AI models to classify skin lesions and identify potential skin cancers, supporting early diagnosis and improved healthcare outcomes. [GitHub Link]
- **Chat with Your Documents (LLMs) with Hugging Face & Tkinter** — Built an AI-based system using Hugging Face models for chat with your documents, integrated with a Tkinter GUI for user-friendly interaction and validation of input pdf. [Github Link]
- **Jaw Types Classification** — developed an AI-based classification model to automatically identify jaw alignment types, including prognathic, retrognathic, and normal. [GitHub Link]
- **Heart Beat Classification** — developed an AI model to classify heartbeat signals into Fusion, Supraventricular, Ventricular, and Normal categories. [GitHub Link]

NLP Projects: -

- **Arabic Offensive and Toxic Comments** — implemented a natural language processing (NLP) model for detecting offensive and toxic language in Arabic social media comments. [GitHub Link]
- **English Offensive and Toxic Comments** — implemented an NLP-based classification model to detect offensive, toxic, and abusive language in English comments. [GitHub Link]
- **Disease Diagnosis Chatbot** — Designed and implemented an AI-powered chatbot for preliminary disease diagnosis. The system interacts with users through natural language, collects symptom data, and suggests possible conditions using a rule-based or machine learning backend. [GitHub Link]

Computer Vision Projects: -

- **Pose Estimation, Object Detection (YOLO), UNet Segmentation** All available on [GitHub](#).

Android Development Projects: -

- **DrCare (Graduation Project)** — Developed a healthcare application with features to assist patients and medical staff. [GitHub Link]
- **DailyNews** — Created a news aggregation app for Android providing up-to-date news content. [Github Link]
- **Messenger App** — Built a real-time messaging application using Android technologies. [Github Link]
- **EasyCare App** — a medical diagnosis app that uses Prolog to identify diseases based on user symptoms. [Github Link]
- **Notes App** — developed a Notes App that allows users to create, edit, delete, and organize notes. [Github Link]

Skills: -

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| • English: Very Good. | • Team Work & Collaboration. |
| • Proficient in MS Office. | • Critical Thinking & Solve Problems. |
| • Academic Support. | • Time Management. |
| • Research Assistance. | • Leadership. |