

Malak Al-Abiad

AI Engineer

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Github: Malak-Alaabiad | Kaggle: malakalaabiad | My Portfolio

EDUCATION

Faculty of Computers and Artificial Intelligence, Cairo University

Sep 2023 – present

- Relevant Coursework: Programming-1, Object-Oriented Programming, Mathematics-1, Mathematics-2, Statistics-1, Statistics 2, Discrete Mathematics, Digital Logic Design.

EXPERIENCE

AI Instructor at MSP tech club - Helwan University

Sep 2024 – Till now

- Delivered interactive and engaging sessions on Machine Learning fundamentals and advanced algorithms.
- Conducted over 8 sessions per month, tailoring content to suit diverse learning needs.
- Tracked and monitored student progress to ensure academic growth.
- Maintained clear communication regarding expectations, assignments, and grading criteria.
- Offered guidance and support to students, fostering a positive learning environment.
- Adapted teaching strategies to accommodate varied learning styles and needs.

AI Summer Training at Huawei ICT Academy

Jul 2024 | FCAI-CU

Cairo University

Huawei HCIP-AI V2.0

- Deep Learning (Artificial Neural Network).
- Computer Vision (Feature Extraction, Convolution Neural Network, Object Detection, Object Segmentation using).
- Speech processing (Speech Signal Analysis, Speech Feature Extraction, Speech Recognition, Text to Speech synthesis).
- NLP(Text Classification, Text Generation, Machine Translation Using RNN).

PROJECTS

Skin Tone Classification

- Developed a skin tone classification model to categorize images into seven skin tone categories: dark, light, lighten, mid dark, mid light, mid-dark, and mid-light.
- Utilized Convolutional Neural Networks (CNNs) to achieve high accuracy in classification.
- Deployed the model using Flask to create an interactive and user-friendly web application.
- Designed the system to ensure efficient and accurate skin tone classification.

Face Emotion Classification

Dec 2024

- Developed a deep learning model for facial emotion detection using the FER2013 dataset.
- Worked with a dataset of 35,887 labeled images spanning seven emotions: Anger, Disgust, Fear, Happiness, Sadness, Surprise, and Neutral.
- Integrated the Wider Face dataset (over 32,000 images) for face detection during preprocessing.
- Designed the system to accurately classify emotions from facial expressions in real-time.
- Focused on creating a robust and efficient emotion detection pipeline.

House prices prediction Model

A ML model which can predict house prices using python programming language.

CERTIFICATES

Data Science and AI 75-Hours Diploma [↗](#)

DotPy Academy

Huawei Summer Training of Artificial Intelligence [↗](#)

HCIP-AI V2.0

MSP certified me in recognition of my efforts as an AI and Machine Learning Instructor and AI Head [↗](#)

From MSP Tech Club - Helwan University

Kaggle Courses:

- Data Cleaning Course [↗](#)
- Machine Learning Course [↗](#)
- Pandas Course [↗](#)
- Python Course [↗](#)
- AI Ethics Course [↗](#)
- Intro to Programming Course [↗](#)

AWARDS

The 1st Place in the AI challenge At AI catalyst'24 event [↗](#)

23 Aug 2024

DotPy Academy

- Our team won 1st Place in the AI Challenge held at Nile University.
- I was responsible for the AI part of this project,
- I developed a model that can detect and classify road damages.

COURSES

Data Science and AI 75-Hours Diploma

Feb 2024 – Jun 2024

DotPy Academy

- Data handling and preprocessing
- Different algorithms for machine learning
- Deep neural networks
- Transfer learning

AI for everyone

Online

DeepLearning.AI, Coursera

EXTRA-CURRICULAR ACTIVITIES

- **Prepared and delivered course materials**, organized contests, and mentored over **100 students**.
- **Reached Expert on Kaggle** (Top 2,000 worldwide out of 50,000+).
- **Create an Educational Series:** Launched a 30-day Machine Learning Algorithms series on LinkedIn, sharing insights and fostering community engagement.

TECHNICAL SKILLS

Programming Languages:

- Python
- C++

Concepts:

- Data Cleaning and Preprocessing
- Python Libraries (Pandas, NumPy, Sklearn, Matplotlib, Seaborn)
- Machine Learning (Algorithms and Libraries)
- Deep Learning (Tensorflow)
- Computer Vision
- NLP
- Transfer learning
- Applied Mathematics (Probability and Statistics)
- Problem Solving using C++

Tools:

- GitHub
- Microsoft Office (Excel, Word, PowerPoint)

LEADERSHIP EXPERIENCE

MSP Tech Club - Helwan University
- AI and ML Head

Sep 2024 – present