Ahmed Emad Reda

A motivated and skilled Computer Engineering graduate, passionate about using machine learning and data science to drive innovation and deliver impactful solutions. I bring enthusiasm, responsibility, and a strong work ethic. Known for creativity and excelling in collaborative environments, I am eager to contribute to and lead meaningful projects.

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EDUCATION

Cairo University, 2019 – 2024
Faculty of Engineering
Major: Communication & Computer Engineering, Computer Track (CCE-C)
GPA: 3.75/4.0 (Distinct Honors)

ABOUT

Nationality: Egyptian
Date of Birth: 01/10/2001
Languages: English Fluent, German Moderate A3, Arabic Mother Tongue

WORK EXPERIENCE

Software Engineer at Huawei Technologies: August - September 2022 & August - October 2023.

RELEVANT COURSES

- Design and Analysis of Algorithms
- Programming Techniques (OOP)
- Natural Language Processing (NLP)
- Image Processing & Computer Vision
- Software Engineering
- Pattern Recognition and Artificial Neural Networks
- Machine Intelligence
- Operating Systems
- Language & Compilers
- Computer Architecture
- Database Management Systems
- Data Mining, Big Data and Data Analytics

GRADUATION PROJECT

MD-Vision **[Scikit-learn, Python, NumPy, PyTorch, OpenCV]**

- Optimizes healthcare efficiency and empowers patients with Computer Vision and Conversational AI.
- Medical Chatbot: Utilizes decision trees for symptom analysis and preliminary diagnosis.
- Medical Image Captioner: Generates detailed descriptions of medical images using advanced LSTM & co-attention mechanisms.

SIGNIFICANT PROJECTS

Hotel Cancellation Prediction **[Python, Pandas, Spark, Scikit-Learn, Matplotlib]**

- Developed a machine learning model to predict hotel booking cancellations.
- Executed data preprocessing, EDA, feature engineering, and model training/evaluation.

Arabic text diacritization **[Python, NumPy, PyTorch]**

- Designed and implemented an NLP project that adds 17 possible diacritics (Tashkeel) to Arabic letters.
- The project involved 4 stages: Data cleaning, tokenization, features extraction, and implementing an LSTM-based model.

Artistic Style Transfer **[Python, OpenCV]**

- Implementation for Style-Transfer via Texture-Synthesis paper in python
- Classical method in style transfer without the use of neural networks.

Arabic Font Recognition System **[Python, NumPy, Pandas, OpenCV, PyTorch, FastAPI]**

- Implemented an Arabic Font Recognition System to classify paragraphs written in Arabic into one of four fonts.
- Utilized image processing with OpenCV, PyTorch model development, and FastAPI for efficient deployment.

Twitter Clone Website Frontend **[HTML, CSS, React.js]**

- Home Page.
- Profile Page.
- Navigation Bar.

ONLINE COURSES

- Machine Learning Specialization (DeepLearning.AI) By Andrew NG
- Deep Learning Specialization (DeepLearning.AI) By Andrew NG *In Progress*

SKILLS

Programming Languages	Python, SQL, R, C++, JavaScript, C#, C, MATLAB, Java
Concepts	Machine Learning, Deep Learning, OOP, Algorithms, Data Structures, Problem Solving
Technologies & Tools	Git, GitHub, PyTorch, Scikit-Learn, Pandas, Matplotlib, MongoDB, HTML, CSS, React.js, Node.js