

MOHAMED AHMED EL HARAKANI

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Education

Alexandria University

Sep. 2020 – June 2024

Bachelor of Science in Computer and Data Science (major AI), GPA:3.828

Alexandria

Coursework and Cerifications

- Algorithms and Data Structures
- Deep Learning
- Machine Learning
- Database Management
- Artificial Intelligence
- Probability and Statistics
- Linear Algebra
- Computer Vision
- Natural Language Processing
- LLM

Tensorflow Certification: Certification (This certification provided by Tensorflow only 21 person in egypt have it Google Developers Certification)

AWS Cloud Technical Essentials: Certification

Generative Deep Learning with TensorFlow: Certification Provided by DeepLearning.AI

Natural Language Processing: Certification Provided by DeepLearning.AI

Experience

Egyptian Projects Operation and Maintenance (EPROM)

August 2022 – October 2022

Database Developer Intern

Alexandria – Egypt

- The company wanted to change their database system from using only papers to being digital.
- I was responsible for making the database related to employees for sending requests to the manager (e.g., if they want to take a vacation) and the manager database that has the authority to accept or deny.
- Used SQL, PL/SQL, and Oracle Apex for this project.

TechWebInnovations OÜ

September 2024 – Present

Junior Web Designer and Infrastructure Admin

Germany

- Design and develop custom websites for clients using platforms like WordPress, WooCommerce, and Divi.
- Create visually appealing, user-friendly websites tailored to client needs, ensuring brand consistency and optimal user experience.
- Integrate AI-driven features and tools into websites enhance functionality and client satisfaction.
- Support the company's Linux-based infrastructure that powers client websites, including system monitoring, troubleshooting, and optimization.
- Assist in the deployment and management of Docker containers and other technologies to ensure reliable service delivery to clients.

Singularity Labs

January 2025 – Present

AI/LLM Intern

Cairo – Egypt

- Developed expertise in Retrieval-Augmented Generation (RAG) and AI Agents for intelligent automation.
- Worked on Sales Agent AI, improving response accuracy using RAG-based search techniques.
- Tested different LLM models.

Projects

Hieroglyphic OCR and Translator

February 2024 - May 2024

- Developed an OCR and translator for hieroglyphic characters. Tourists can take a picture of an Ancient Egyptian wall and receive a translation of what is written on the wall.
- Implemented using Python, Tensorflow, Keras, and the concept of transfer learning (Detectron2 model).

MonoTalk (Graduation Project)

February 2023 - June 2024

- Developed a mobile application and a web application for real time interaction with monuments in the museums and share our culture all over the world.
- Implement a CNN model for place detection and provide the right information about the place uploaded to the model (create a model from scratch using tensorflow ,then using ResNet (transfer learning concept).
- Implement a multilingual sentiment analysis model by concatenate three difference models one for detecting the comment language,one for translation and finally the sentiment analysis model(BERT model).
- Using text to speech and speech to text for the interaction with the LLM.

Healthcare Website

May 2024

- Created a website to detect if there is a heart disease or not, take an X-Ray image of a breast and detect if the patient has COVID-19, viral pneumonia, or is normal, provide a chatbot, and symptom to disease matching.
- Implemented using HTML, CSS, Node.js, Flask, Python, Tensorflow, Keras.

Tavla Website

April 2023

- Created a website for a furniture hub called Tavla.
- Implemented using Node.js, MongoDB, React.js, JavaScript.

Image Classification for Egyptian Historical places

- Created a model that classify image of places in Egypt and give information about this place after classification.
- Implemented using Python, Tensorflow, Keras.

Ventilator Pressure: EDA

- Provided with 75,450 non-contiguous cycles each cycle is uniquely provided with 75,450 non-contiguous cycles each cycle is uniquely labelled with an individual breath-id of the PVP1 automated ventilator connected to a high-grade test lung (Quicklung, Ingmar Medical) Three different values of the compliance (C) were tested [10,20,50] mL cm H₂O in conjunction with three different values of resistance (R) [5,20,50] cm H₂O/L/s, resulting in a total of 9 different lung settings.
- Solved by using sequential Model. The Model was bidirectional-LSTM

Hand detector and tracking

- Detecting hands in real time application and tracking them.
- Calculate the distance between the index finger and the thumb then moving a servo motor depending on that distance
- Implemented using Python, mediapipe, Cv2.

Skills

Technical Skills

- **Languages/Libraries:** Python, Java, Node.js, Tensorflow, C++, HTML/CSS, JavaScript, SQL/MySQL, MongoDB, Numpy, Matplotlib, Pandas, Android
- **Developer Tools:** VS Code, Eclipse, Netbeans, Google Colab, Android Studio
- **Technologies/Frameworks:** GitHub, Oracle Apex

Languages

- Arabic (Native), French (Fluent), English (Fluent), German (Basic)