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Abdallah Fekry
Data Scientist

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github.com/BeboFekry
portfolio

Education

Culture and Science City C.S.C   **2020 - 2024**
Bachelor of Science in Computer Science
Cumulative Grade: Very Good with Honors
Graduation Project:
Grade: Excellent
Description:
• Lead the team and distributed the tasks on the team members, using agile methodology, communicate with others weekly to make a presentation for the work done.
• Developed an NLP-based smart chatbot that diagnoses diseases, gives information about it and recommends tests like X-rays, MRIs, etc. Based on patient symptoms, Capable of predicting 30 diseases.
• Implemented a sequence of end-to-end 14 computer vision models most are exceeding 95% accuracy for scanning medical imaging (X-ray, MRI, CT, and OCT), performing anatomical recognition, and disease evaluation. Predicts 25 disease types including Bone Fracture, Brain Tumor, Breast Cancer, Covid-19, etc.
• Additionally, integrates food image recognition identifying 101 food types and providing the approximate number of calories per gram.
• Deploy the models using Flask to make API's and connect them with mobile app and Streamlit for web.

Skills

Python - Data Analysis and Visualization with Numpy, Pandas, Matplotlib, Seaborn - SQL
Machine Learning with Scikit Learn - Deep Learning with TensorFlow & Keras
Deployment with Flask & Streamlit - LLM using Langchain & RAG

Experience

AI Engineer Intern | Electro Pi   **August 2024 - October 2024**
• Developed more than 8 AI projects in NLP, LLM, Computer Vision, and Speech Recognition.
• Developed NLP Techniques as LLM using LangChain and RAG for making customized chatbots to answer business questions.
• Applied the Computer Vision Techniques as OCR for using in invoicing systems and connect it with LLM to extract the data and add it to a database for the system.
• Working with other techniques as Speech Recognition (voice to text) and (text to voice), Wav2Lip for Lip Syncing for making human like chatbots.
• Working individually and as a part of a team using Agile methodology.

Big Data Essentials Trainee | NTI   **March 2024 - May 2024**
• Got the foundation of 2 essentials needed for Hadoop platforms Networks & Linux.
• Developed interactive Python programming codes, integrating practical exercises on 5 advanced topics like OOP, Numpy, Pandas, Matplotlib and Seaborn and improving data handling efficiency.
• Develop a completed database, analyze data, apply EDA and ask 10 business questions in reports using Microsoft Power BI.
• Had the opportunity to start with Big Data tools and techniques and work on Hadoop platforms.

Machine Learning Intern | Prodigy Infotech February   **2024 – March 2024**
• Developed 3 Machine Learning projects such as Customer Clustering using K-Means, Dogs and Cats Classification using Support Vector Machine SVM.
• Architected 2 Deep Learning projects such as Hand Gesture classification using Deep Learning, Food Type Classification and identify calories using Deep Learning CNN.
• In addition, the data analysis, cleansing, preprocessing and visualization parts for 5 projects.

Machine Learning Intern | Code Casa   **September 2023 – October 2023**
• Got hands-on experience on 2 projects as Stock Price Prediction using LSTM model architecture and Housing Price Prediction using Multiple Linear Regression Algorithm.
• Collect, analyze, preprocess and clean data from 2 datasets then visualize the results for 2 projects.
• Received a Letter of Recommendation after the 1-month internship for professional work.

AI & IoT Trainee | NTI   **September 2023 – October 2023**
During the 1-month (120 hours) Training Program, had the opportunity to dive deep into the AI world.
• Mastered AI techniques including mathematics, data preprocessing, cleansing, and visualization while implementing machine learning and deep learning algorithms and frameworks, this knowledge enabled the successful completion of 10 predictive modeling projects.
• Experienced in Natural Language Processing NLP basic techniques and applying text preprocessing as text stemming, padding and tokenization in 2 projects as sentiment analysis, and on IMDB classification.
• Experienced in Computer Vision basic techniques as CNN, RNN, LSTM, etc. and applying 5 projects as chest Xray diagnosis, handwritten numbers classification, object detection, face recognition, etc.

Certificates & Courses

Microsoft Learn Student Clubs by EELU
• Data Science & Machine Learning Bootcamp   March 2024 - October 2024

Ministry of Youth and Sports
• Huawei HCIA AI v3.5   December 2023
• Python programming language   October 2022
• Data Analysis & SQL Training Program   July 2023

Hacker Rank
• Problem Solving Basic   April 2024
• Java Basic   October 2022
• Python Basic   October 2022
• SQL Basic   October 2022

Sololearn
• Introduction to Python   July 2023
• Python Intermediate   August 2023
• Python Developer   August 2023

ITI – Maharatech
• Python Programming Basics   July 2023
• AI for Everyone (AI4E)   July 2023

Languages
Arabic (Native)
English (Very Good)