Yassin Abdulmahdi

Data scientist

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Portfolio Github Kaggle

Professional Experience

Data Engineer, *Seventh Generation Tech* May 2024 – Aug 2024
Abu Dhabi Emirate, UAE

- Collaborated with the data team to develop and maintain web scraping pipelines using Selenium and Beautiful Soup.
- Extracted and processed data from various websites to gather products information for IRANK, ensuring accurate and up-to-date data for users.
- Conducted data cleaning and feature extraction to transform raw data into structured formats suitable for analysis.

website **Google Play** **AppStore**

Junior Data Scientist, *Omdena* May 2023 – Jan 2024

- Contributed as a volunteer in the Omdena Ile-de-France Chapter, actively involved in the development of Conversational AI Chatbot for Alternative Transportation during strikes in France. Responsibilities included designing and implementing machine learning solutions to enhance communication and accessibility during transportation disruptions.
- Contributed as a volunteer in the Omdena Toronto Chapter, focusing on the "Analyzing Brain Scan Images for the Early Detection and Diagnosis of Alzheimer's Disease" project.

Data Science Intern, *SHAI For AI* Feb 2023 – Apr 2024

- Completed a remote training program at Shai for AI specializing in the principles of data science.
- Engaged in a comprehensive educational experience focused on core principles and practical applications of data science.
- Acquired essential skills and knowledge in data analysis, machine learning, and statistical modeling.

Research Intern, *In1Minute* Oct 2022 – Nov 2022

- Engaged in collaborative research initiatives, actively participating in knowledge exchange sessions with a diverse cohort of fellow participants.
- Leveraged the opportunity to glean insights from professionals representing various backgrounds, fostering an enriching exchange of ideas and perspectives.

Education

Bachelor of Science in Information Technology Engineering, *Damascus University* Sep 2019 – Sep 2024

- Relevant Coursework: Computer vision, NLP, Machine Learning, Data Structures, Algorithms, Software Engineering.

Skills

Python | Machine learning | Deep Learning | Neural Networks | OpenCV | NLP | C++ | TensorFlow | Flutter | Data Structures | Algorithms | Git | Problem solving

Awards

ICPC - International Collegiate Programming Contest

- Ranked 19th in the 2022 Damascus University Collegiate Programming Contest.
- Ranked 12th in the 2021 Al-Baath University Collegiate Programming Contest.
- 146th place among more than 400 participating teams in The 2021 ACPC Kick off Online Individual Contest.

ICPCOD

Personal projects

FluentFlow, *Bachelor's Degree Project in Information Technology Engineering - Artificial Intelligence Department*

- Developed a web application to assist users in enhancing public speaking skills by evaluating performance across various criteria such as body language, voice modulation, and speech content.
- Performance Evaluation: The app assesses users' public speaking skills across multiple criteria:
  - *Body Movement and Language*: Analyzes gestures, posture, head gaze, and eye gaze to provide insights into non-verbal communication.
  - Voice Analysis: Measures aspects such as speed, vocal variation, pauses, and filler words to improve speech delivery.
  - Script and Language Evaluation: Examines the script's content, language variation, and overall coherence.
- Processing Libraries:
  - Text Processing: Employed libraries like NLTK, SpaCy and XGBoost to analyze the script's linguistic features.
  - Video Processing: Used Mediapipe and PyTorch for analyzing body movements and gestures from video inputs.
  - Audio Processing: Leveraged Librosa for in-depth analysis of vocal features.
- Frontend: Built the user interface using Flutter.
- Backend: Developed the server-side logic with Django.

Demo

jigsaw genius

This App is designed to tackle jigsaw and grid puzzles using computer vision technology. It offers an intuitive and interactive experience, enabling users to effortlessly upload puzzle images and receive accurate solutions. A standout feature allows users to provide hint images for added assistance.

- Puzzle Solving: Seamlessly analyze and present solutions for a wide array of puzzle or jigsaw images.
- Hint Image Support: Elevate puzzle-solving capabilities with the option to upload a secondary image as a hint, especially useful for complex puzzles.
- Interactive Interface: Enjoy a user-friendly interface for straightforward navigation, ensuring an enjoyable user experience.
- Advanced Computer Vision:
  Leverage sophisticated computer vision algorithms, implemented in Python and OpenCV.

Github **Demo**

Sketchy, *Interactive Drawing Education System for Children*

My team and I have developed an inventive web application dedicated to enhancing drawing education for children. This interactive system incorporates cutting-edge machine learning algorithms to predict and assist children in their artistic endeavors, creating an engaging learning environment with real-time feedback and support.

Key Features:

- Drawing Prediction:
  Our system excels in predicting a child's intended drawing, providing invaluable assistance throughout their artistic journey.
- Completion Assistance:
  Uniquely, the application offers completion assistance, guiding children to finish their drawings by offering helpful suggestions and guidance where needed.

Models Utilized:

Neural Networks, Deep Learning, KNN, RNN.

Website **Github**

English Grammar Error Correction

The Project is a dedicated effort towards developing an efficient system for automatically detecting and correcting grammatical errors in written English text. Utilizing the powerful T5 model and implementing an Encoder-Decoder architecture.

- T5 Model Integration.
- Encoder-Decoder Architecture.
- User-Friendly Interface.

Github