Yassin Abdulmahdi

Data scientist

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Portfolio Github Kaggle

Professional Experience

Data Engineer, *Seventh Generation Tech* May 2024 – present
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 – present

- 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 – present

- 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

jigsaw genius
This App is a sophisticated application designed to tackle jigsaw and grid puzzles using cutting-edge 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, particularly beneficial for intricate puzzles.
Key Features:
- 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, to achieve precise and efficient puzzle solving.

Github **Demo**

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

Arabic Text Classification and Sequence Labeling
- Implemented diverse models including Naive Bayes, Logistic Regression, LSTM, and CNN to handle various aspects of text classification and sequence labeling.
- Demonstrated proficiency in machine learning techniques applied to natural language processing (NLP) tasks, contributing to the enhancement of Arabic language processing capabilities.
- Successfully applied these techniques to real-world scenarios, achieving competitive performance in classification and labeling accuracy.

Github

Heartbeat Categorization
This project is aimed at developing a machine learning model that can accurately classify heartbeats as either normal or abnormal. The model is trained on a dataset of ECG (electrocardiogram) signals, which were collected from patients and labeled by medical professionals.

Gitub