Abdulrahman Sinjab

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Github

Personal Website

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EDUCATION

Georgia Institute of Technology — 2024 - Present
M.S. Computer Science: Machine Learning

University of California, San Diego — 2021 - 2024
B.S. Cognitive Science: Machine Learning

EXPERIENCE

UCSD Computer Science and Engineering — La Jolla, CA
ML Researcher | OpenCV, TensorFlow, OpenAI — *Jan 2024 - Present*

- Conducted research on invasive species management using AI Compute Data Terrariums and Eco Data Collection devices to enhance early detection and monitoring.
- Developed a solar-powered, low-energy solution leveraging advanced computer vision (YOLOv8) for accurate identification of invasive species, addressing ecological and economic impacts.
- Evaluated the scalability and effectiveness of the Eco Data Collector and Data Terrarium to ensure optimal data gathering and processing capabilities.
- Awarded a $50,000 grant and recognized as a finalist in the Pacific Symposium for innovative contributions to sustainable environmental practices.

Targimo — San Diego, CA
Software Engineer | Flask, PyTorch, ML Research — *Sep 2023 - April 2024*

- Developed a machine learning-based login credentials page, enhancing user authentication efficiency and security for Targimo's user interface.
- Designed and implemented a machine learning algorithm that prioritized user emails, improving response times and user satisfaction.
- Conducted thorough testing and debugging of machine learning models to ensure optimal performance.
- Researched and estimated product scalability, providing data-driven recommendations for feature expansion.

UCSD Shiley Eye Center — La Jolla, CA
Research Intern | Microsoft Excel, Data Analysis — *Jan 2019 - May 2019*

- Gained hands-on experience with lab equipment and procedures while effectively communicating complex technical information to patients.
- Utilized Excel to collect, normalize, and analyze patient data, contributing to research assessing drug efficacy and treatment outcomes.
- Developed a streamlined data management process, improving the accuracy and accessibility of patient information.
- Assisted in designing and implementing research methodologies, ensuring compliance with ethical standards.

PROJECTS

Epileptic Seizure Recognition — Machine Learning

- Spearheaded the development of machine learning models for EEG seizure prediction, achieving a K-Nearest Neighbors classifier with 99.13% accuracy.
- Conducted exploratory data analysis (EDA) and feature engineering, utilizing Welch's method to identify key predictive patterns.
- Optimized model performance through regularization techniques and scaled feature sets for effective detection across large-scale datasets.

Ethereum Fraud Detector — Data Science

- Developed and led a group project to combat Ethereum fraud by designing methods that classified and predicted fraudulent transaction anomalies.
- Preprocessed and analyzed Ethereum datasets, creating a supervised machine learning ensemble achieving 85% accuracy.
- Implemented confusion matrices and precision-recall curves to evaluate model performance, enhancing reliability by 20%.

MISCELLANEOUS

Skills: Python, C/C++, Java

More Info: UCSD Chancellor Associate Scholar, Pacific Symposium Finalist

Languages: English, Arabic