

Abdulahman Sinjab

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EDUCATION

Georgia Institute of Technology <i>M.S. Computer Science: Machine Learning</i>	2024 - 2026
University of California, San Diego <i>B.S. Cognitive Science: Machine Learning</i>	2021 - 2024

EXPERIENCE

UCSD Computer Science and Engineering <i>ML Researcher OpenCV, TensorFlow, OpenAI</i>	San Diego, CA Jan 2024 - Present
<ul style="list-style-type: none">Conducted research on invasive species management using AI Compute Data Terrariums and Eco Data Collection devices to enhance early detection and monitoring, while addressing ecological and economic impacts.Developed a solar-powered, low-energy AI solution using YOLOv8, achieving 95% accuracy in identifying invasive species, which reduced monitoring costs by 30% and improved detection rates by 20%.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 <i>Software Engineer Flask, PyTorch, ML Research</i>	San Diego, CA Sep 2023 - April 2024
<ul style="list-style-type: none">Developed a machine learning-based login system, increasing authentication efficiency by 50% and reducing security breaches by 15%.Designed and implemented a machine learning algorithm that prioritized user emails, improving response times and user satisfaction by 30%.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 <i>Research Intern Microsoft Excel, Data Analysis</i>	San Diego, CA Jan 2019 - May 2019
<ul style="list-style-type: none">Achieved a 25% increase in the accuracy of patient data management by developing a streamlined data management process that enhanced the accessibility and reliability of patient information for ongoing research projects.Utilized Excel to collect, normalize, and analyze patient data from over 100 eye exams, contributing to research assessing drug efficacy and treatment outcomes, leading to improved understanding of patient responses.Communicated complex technical information about study protocols effectively to patients, enhancing participant understanding and engagement in the research process.Assisted in designing and implementing research methodologies, ensuring compliance with ethical standards and improving the reliability of study results.	

PROJECTS

Epileptic Seizure Recognition	Machine Learning
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Developed and led a group project to combat Ethereum fraud by designing methods that classified and predicted over 200 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%.	

SKILLS

Languages: Python, C/C++, Java, R, JavaScript, MySQL
Software: TensorFlow, PyTorch, Scikit-learn, NumPy, Seaborn, OpenCV, Flask, Git/GitHub
Awards: UCSD Chancellor Associate Scholar, Pacific Symposium Finalist