

Abtin Olaee CV

PERSONAL INFORMATION

First name: Abtin
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RESEARCH INTERESTS

I am pursuing a graduate degree in Data Research to strengthen my ability to apply data-driven methods to real-world problems. My background includes data engineering, database management, and experience with both AWS and GCP. I have a strong foundation in mathematical modeling, machine learning, and predictive analytics, with a focus on building systems that support human-computer interaction. I'm especially interested in advancing my skills in Recursive Neural Networks and Reinforcement Learning to develop practical AI solutions that connect research and real-world impact.

EDUCATION

Masters of Science - Data Science AUG 2025 - MAY 2027 (EXP)
San Jose State University

Relevant Coursework: Scalable Data Analysis, Multidimensional Scaling, ETL Pipelines, Time-Series Databases

Bachelor of Science - Statistics and Data Science SEP 2023 - JUN 2025
University of California Santa Barbara

Relevant Coursework: Relevant Coursework: R Statistical Computing, Cloud Infrastructure (GCP), MLOps, Feature Engineering Data Pipelines (Spark), Time-Series, Bayesian Inference, Stochastic Modeling, Fixed Income & Equity Analysis, Market Data & Model Validation

Dean's Honors (L&S) - Fall 2023, Spring 2024, Spring 2025

Associate of Science - Computer Science SEP 2020 - MAY 2023
Ohlone College

Relevant Coursework: Python Data Structures, Introduction to Cloud ML Tools (Amazon SageMaker), Differential Equations and Linear Algebra

WORK EXPERIENCE

Software Engineer Intern

JUN 2023 - AUG 2023

Frugal Innovation Hub of Santa Clara University

Developed a responsive English-as-a-Second-Language (ESL) learning application using Firebase and Flutter. Collaborated cross-functionally to ensure data integrity and UI/UX excellence. Delivered milestone presentations and demos to stakeholders, focusing on project goals and measurable outcomes

Software Engineer Intern

MAY 2022 - AUG 2022

Titan Cloud Consulting

Collaborated with clients to build networks with other business owners. Analyzed large datasets using Excel and guided clients in SQL (AWS/MySQL) and Python for automation. Set up and configured AWS cloud resources, helping clients access and leverage them for business growth

UNIVERSITY EXPERIENCE

Vice President and Co-Founder

IEEE Student Chapter, Ohlone College

Founded the first IEEE branch at a California community college. Led a team of 50+ students and organized technical project showcases and conference participation. Software contributor to Project DIANA, creating UAV-based gas detection and real-time mapping systems

TEACHING AND MENTORING EXPERIENCE

Assistant Wrestling Coach

Irvington High School

Developed lesson plans and curriculum for teams of 20-30 students based on their individual needs and learning styles. Collaborated with the school district athletic department to plan and execute events. Maintained records of practice sessions and provided regular updates to parents on student progress

Coding Instructor

Code Ninjas Fremont

Maintained a supportive and inclusive classroom atmosphere, promoting collaborative learning and facilitating one-on-one tutoring student help. Mentored students in building real-world projects and portfolios to showcase their coding abilities. Hosted week-long coding camps, providing learning experiences for students of all skill levels

PROJECTS

Neural Network Image Classification

Developed an end-to-end machine learning pipeline for handwritten equation recognition using the MNIST dataset. Leveraged TensorFlow to build and train a convolutional neural network (CNN), achieving 99% test accuracy in digit and symbol classification. Utilized OpenCV (CV2) for image preprocessing and segmentation to isolate individual characters from handwritten input. Integrated Python-based automation with the Wolfram Alpha API to interpret predicted characters and return computed solutions, enabling dynamic equation solving. Demonstrating strong expertise in deep learning, computer vision, model optimization, and cloud-integrated API services.

Data-Driven Analysis of UFC Predictors

Analyzed a dataset with over 8,000 observations and 100+ predictors. Applied Feature Engineering concepts to enhance dimensionality reduction and optimize data representation. KNN Clustering. Utilized various Machine Learning Models such as Random Forest, Support Vector Machine (SVM), Extreme Gradient Boosting (XGBoost), achieving highest accuracy of 62% accuracy.

Fluent Focus

Developed a comprehensive language learning mobile app. Designed for foreign immigrants aiming to improve their English proficiency and integration into American culture. Includes tailored English learning curriculum. Utilizing Figma, an intuitive and user-friendly interface was designed. The application was built using Flutter and Dart, ensuring cross-platform compatibility and a seamless user experience. Firebase was integrated to deliver personalized daily challenges, motivating consistent learning and practice.

Project DIANA

Software Developer for Project DIANA, building custom UAV software to detect and map gas concentrations in real-time. The goal is to protect endangered species and biodiversity through reducing gas concentrations, such as nitrogen gas, in the surrounding areas. Received Grant for high tech drone in which Grove AQI sensors were attached. to detect real time wide scope of harmful gases. Input the data into the Arduino computer for interpretation.

SKILLS & CERTIFICATIONS

Languages & Tools: Python, SQL (BigQuery), R, TensorFlow, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn

Cloud Platforms: Google Cloud Platform, AWS S3, Firebase, Databricks

Analytics & Visualization: Tableau (basic), Looker (familiar), REST APIs, Selenium, BeautifulSoup, rvest, jsonlite

Certifications: Microsoft Technology Associate – Security Fundamentals