Abtin Olaee

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EDUCATION

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

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

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

Student Software Developer Lab 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 to ensure data integrity and UI/UX excellence. Delivered milestone presentations and demos to supervising faculty, focusing on project goals and measurable outcomes

Customer Service Associate 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. Configured AWS cloud resources to help clients access and leverage them for business growth

UNIVERSITY EXPERIENCE

Vice President and Co-Founder NOV 2021 - MAY 2023
IEEE Student Chapter, Ohlone College
Co-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

PROJECTS

Neural Network Image Classification

Developed an end-to-end machine learning pipeline for handwritten equation recognition using Handwritten Math Symbols 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. The project highlights expertise in deep learning, computer vision, model optimization, and cloud-integrated API services.

Data-Driven Analysis of UFC Predictors

Analyzed a dataset containing nearly 6,500 observations and over 100 predictors to identify key factors influencing fight outcomes. Applied feature engineering techniques to enhance dimensionality reduction and optimize data representation. Implemented KNN clustering and evaluated multiple machine learning models including: Random Forest, Support Vector Machine (SVM), and Extreme Gradient Boosting (XGBoost), achieving a peak accuracy of 62%. This Project was supervised by Prof. Katie Coburn.

Fluent Focus

This project was supervised by Dr. Silvia Figueira, as part of the 2023 SCU/Ohlone College Summer Internship Program. Together with a partner, we developed a mobile app featuring a personalized English learning curriculum, daily challenges, and real-time progress tracking. Using Figma, we designed an intuitive and user-friendly interface to enhance accessibility and engagement. The app was built with Flutter and Dart, ensuring cross-platform compatibility and a seamless user experience. We integrated Firebase to deliver tailored daily challenges, encouraging consistent learning while tracking individual progress over time.

Project DIANA

I contributed as a software developer for Project DIANA, where we built custom UAV software to detect and map gas concentrations in real time. Our mission was to protect endangered species and preserve biodiversity by reducing harmful emissions like nitrogen gas in vulnerable ecosystems. We secured a technology grant to acquire advanced drones equipped with Grove AQI sensors for air quality monitoring. I helped process atmospheric data using Arduino systems, enabling real-time interpretation across wide areas and generating actionable insights for environmental conservation.

TEACHING AND MENTORING EXPERIENCE

Assistant Wrestling Coach

DEC 2021 - FEB 2023

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

Robotics Instructor JULY 2025 - Present

Magikid Fremont

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

SKILLS & CERTIFICATIONS

Languages & Tools: Python, MySQL (BigQuery), R, TensorFlow, PyTorch, NumPy, Scikit-learn, Matplotlib

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

Certifications: Microsoft Technology Associate – Security Fundamentals