

# Abtin Olae

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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 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-level 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.

## 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