

Andrew Perez

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EDUCATION

California State Polytechnic University, Pomona

Graduated Winter 2024

Major in Computer Science | Bachelor of Science

- Minor in Data Science
- Summa cum laude
- Organizations: SheCodes, Cal Poly SWIFT

EXPERIENCE AND PROJECTS

Medical Clinic Appointment No-show Analysis & Dashboard

June 2025

Data Analyst

- Analyzed **71,000+ real-world appointments** across **14 features** (age, wait time, etc.) using Excel and Power Query to identify key drivers of **patient no-shows/absences**.
- Delivered a data-backed, timelined proposal to **reduce no-shows by 15%, saving \$157,000** in estimated costs.
- Built an **Excel dashboard** with targeted KPIs and story-driven visualizations that highlight trends of key features related to no-shows.

Fake News Detection Model

Winter 2024

Machine Learning & Natural Language Processing

- Applied NLP techniques (Word2Vec, TF-IDF) to a labeled dataset of **11,000+ political statements** to classify as real or fake.
- Trained **5 classification models** (Logistic Regression, CNN, SVM, RNN, KNN), achieving up to **27% accuracy**.
- Evaluated models using **Python scikit-learn** with precision, recall, and F1-score metrics.

Remote Kinematic Analysis for Mobility Scooters

Spring 2024–Winter 2024

Computer Vision & Mobile App Development

- Enhancing safety for mobility scooter users by developing **real-time inference safety metrics** using **Python OpenCV** and human pose estimation.
- Used **Firestore** to store and retrieve **388K+ video frames** processed through a team-developed **Android Studio app** to identify rider risk factors.
- Collaborated with clinicians and engineers in a **multi-institution team** for a 3-year U.S. National Science Foundation-sponsored project.

STARS Research Internship - Automated Blender Decal Application

Summer 2023

Photogrammetry Automation Researcher

- Optimized 3D model creation pipeline by automating the process of applying a plane onto an object as a **Blender** add-on using **Python**.
- Presented at the Annual CPP Creative Activities & Research Symposium (CARS).

HONORS AND AWARDS

University Honors: Dean's List, President's List

2020–2024

California State Polytechnic University, Pomona | College of Science

Eagle Scout

2013-2020

Boy Scouts of America, Troop 140 | Eagle Scout Class of 2020

- Led 20+ volunteers over 4 months to educate and equip a local elementary school for natural disasters.

TECHNICAL SKILLS AND INTERESTS

Languages & Tools: Python, SQL, Excel, Tableau, Java, JavaScript, HTML, CSS, Blender

Concepts: Data Analysis, Machine Learning, Computer Vision, NLP, Data Structures

Coursework: Big Data Analytics, Cloud Computing, Machine Learning, Software Engineering