

Andrew Perez

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EDUCATION

California State Polytechnic University, Pomona

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 Analysis

- Analyzed **71,959 real-world appointments** across **14 features** (age, wait time, etc.) via Excel and Power Query to identify key drivers of **patient no-shows/absences**.
- Proposed a data-backed, timed business proposal to **reduce no-shows by 15%, saving \$157,000** in estimated clinic expenses.
- Delivered 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

- Analyzed a labeled dataset of political statements to **classify content as real or fake** using machine learning models and NLP techniques such as **word embeddings** via Word2Vec in Python.
- Trained **5 classification ML models** (Logistic Regression, CNN, SVM, RNN, KNN), achieving up to **27% accuracy** on testing dataset.
- Used **scikit-learn** to split data, build models, and compare results based on precision, recall, and F1-score.

Remote Kinematic Analysis for Mobility Scooters

Spring 2024–Winter 2024

Computer Vision & Mobile App Development

- Enhancing safety for mobility scooter users by developing patient-specific **real-time inference safety metrics** using **Python OpenCV** and human pose estimation to provide critical insights for doctors and rehabilitation specialists.
- Generated and processed large datasets of real patient-recorded scooter ride video footage of over **388K+ frames** through a team-built **Android mobile app**.
- Collaborating with clinicians and within a large **interdisciplinary team** on a 3-year **U.S. National Science Foundation-sponsored** project.

STARS Research Internship - Automated Blender Decal Application

Summer 2023

Photogrammetry Automation Research

- 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

Skills: Python, SQL, Excel, Java, Tableau, Machine Learning, Data Analysis, Blender, HTML, CSS, JavaScript

Relevant Courses: Big Data Analytics and Cloud Computing, Software Engineering, Machine Learning