

# ALEXIS LUEVANOS

Bloomington, CA 92316 | (909) 587- 0240 | [Luevanos353@gmail.com](mailto:Luevanos353@gmail.com)

LinkedIn: [www.linkedin.com/in/alexisluevanos11](https://www.linkedin.com/in/alexisluevanos11) | GitHub: [github.com/ALuevanos](https://github.com/ALuevanos) | Portfolio cite : [www.aluevanos.com](https://www.aluevanos.com)

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## TECHNICAL OVERVIEW

Programming languages: Python, R, SQL, C++

Frameworks & Libraries: TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

Tools: Jupiter Notebook, Google Colab, Git, GitHub, VS Code, Excel, Anaconda, Tableau, Google Sheets

## EXPERIENCE

Data Science Intern | Earn Learn Play Project, Youth Development Department, City of Los Angeles

UCR DS-PATH Program

*June 2024 – September 2024*

- Collaborated with cross-functional teams to develop and maintain a user-centric ArcGIS platform for Los Angeles youth programs, providing real-time data access to thousands of users
- Supported data schema design, data cleaning, and consolidation, ensuring accurate and accessible data for public use
- Developed a data pipeline integrated with MySQL and ArcGIS Online to automate updates and standardizing disparate program datasets

Undergraduate Researcher | Language Explanations for Self-Driving Scenes

California State University, San Bernardino

*May 2024 – August 2024*

- Implemented advanced Natural Language Processing (NLP) and Computer Vision techniques to enhance interpretability in autonomous vehicle systems, focusing on complex urban environments
- Processed and enhanced large-scale datasets (Cityscapes, GTA5), generating high-quality text descriptions of driving scenes to boost model accuracy and context awareness.
- Showcased research findings at the IEEE DSAA Conference 2024, collaborating with faculty and peers in weekly sessions to ensure technical rigor and meaningful results

## PROJECTS

Breast Cancer Stage Prediction Using Machine Learning

- Optimized classification models using grid search and cross-validation, achieving 99.9% accuracy. Processed SEER Program data with advanced feature engineering and applied statistical analysis to validate model performance
- Developed and optimized machine learning pipelines using Python, Scikit-learn, and Pandas, ensuring efficient and accurate model deployment.
- Analyzed clinical data from the SEER Program (4,024 samples), applying label encoding, feature scaling, and stratified splitting to improve model generalization.

Predictive Modeling and Data Analysis: Auto-MPG Dataset

- Analyzed the Auto-MPG dataset by applying data wrangling techniques, handling missing values, and creating clean, structured data for predictive modeling tasks.
- Developed single and multiple linear regression models to predict fuel efficiency and horsepower, achieving an 84.8% accuracy and optimizing model performance through feature engineering and evaluation.
- Visualized relationships between automotive features using libraries such as Pandas, Seaborn, and Plotline, creating actionable insights for trend analysis and decision-making.

## STUDENT INVOLVEMENT

Computer Science and Engineering Club, CSU San Bernadino

*Fall 2022 - Current*

- Mentored peers, guiding new club members on technical projects, best practices, and navigating coursework
- Led coding sessions and guided peers on Python and ML projects, improving technical proficiency for 20+ members. Organized workshops that introduced practical applications of machine learning and embedded systems
- Applied coding expertise to embedded systems projects, integrating software and hardware to solve problems efficiently

## EDUCATION

California State University, San Bernardino - San Bernardino, CA

*Expected Spring 2025*

Bachelor of Science, Computer Engineering and Minor in Data Science | 3.7 GPA cumulative

## RELEVANT COURSEWORK

- Machine Learning, Introduction to Artificial Intelligence, Introduction to Data Science, Statistics with applications