

CHRISTOPHER REBOLLAR-RAMIREZ

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EDUCATION

University of California San Diego, Junior

San Diego, CA | Sep 2021 – June 2025

Bachelor of Science in Mathematics & Computer Science

Bachelor of Science in Cognitive Science with a Specialization in Machine Learning and Neural Computation

Cerritos College

Took several Computer Science courses during High School

Norwalk, CA | July 2018 – June 2021

Relevant Coursework (Computer Science):

CSE 100: Advanced Data Structures, CSE 30: Computer Organization and Systems Programming, CSE 101: Design and Analysis of Algorithms, CIS 280X Object-Oriented Programming C++, CIS 183 Java Programming, CIS 162 HTML and CSS.

SKILLS

Languages: C/C++/C#, Java, Python, HTML and CSS, JavaScript

Developer Tools: GDB Debugger, JDB Debugger, Valgrind, GPROF, GitHub, VS Code, IntelliJ, Eclipse, Atom, Linux, SQL, VIM

IT-Related: PC Core Hardware A+ Cert and PC Operating System A+ Cert, Network Fundamentals

Projects

NLP Movie Review Prediction

- I implemented two feature engineering methods, Bag of Words (BoW) and Term Frequency – Inverse Document Frequency (TF-IDF), to convert raw text data into numerical vectors. The aim was to analyze sentiment in movie reviews using an SVM classifier.
- Utilized Numpy and pandas for data manipulation and organization, matplotlib for data visualization, NLTK for natural language processing tasks, and scikit-learn for implementing machine learning algorithms.
- This hands-on experience allowed me to efficiently preprocess text data, visualize key insights, and implement the SVM classifier for sentiment analysis.

Flight Price Prediction

- Contributed to a collaborative project aiming to investigate the key factors influencing domestic flight pricing from LAX to major U.S. airports in June. Analyzed data sourced from Expedia. Conducted data preprocessing, exploratory data analysis, and predictive modeling.
- Conducted extensive data cleaning and preprocessing, ensuring data quality and consistency.
- Utilized libraries Numpy, Pandas, Matplotlib, and Seaborn for data manipulation, visualization, and analysis.
- Implemented machine learning techniques including linear regression and random forest regression for predictive modeling.
- Improving model accuracy through hyperparameter tuning and feature engineering, resulting in a significant reduction in mean absolute error and root mean squared error.
- Contributed to project documentation, including abstract, background information, and conducting meetings.
- Worked collaboratively with team members to delegate tasks, engage in discussions and meetings, utilized GitHub for project management, and fostered effective team communication throughout the duration of the project.

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

SkillsUSA Competitions (Competitor/Mentor), January 2019

- Applied comprehensive knowledge of C++ language in SkillsUSA computer Programming competitions at regional and state levels, showcasing proficiency in program design and problem solving.