ADRIAN ZHU CHOU

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SKILLS

Programming Languages: Python, Java
Data Analysis Tools: Jupyter Notebook, Matplotlib
Machine Learning Libraries: Pandas, NumPy
Web Development: JavaScript, HTML5, CSS
Design Tools: Figma, Inkscape, Construct 3

EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO

Bachelor of Science in Cognitive Science with Specialization in Machine Learning and Neural Computation
- Expected Graduation: June 2025
- GPA: 3.60

PROJECTS

Predictive Analytics on Diabetes Risk and Pregnancies (Python, Jupyter Notebook)
Data Analyst

- Conducted a predictive analysis to examine the correlation between pregnancy and Type-II diabetes among Pima Indian women.
- Cleaned and preprocessed data using Python libraries (pandas, NumPy) and developed predictive models (logistic regression, SVM), to identify correlations.
- Created visualizations with matplotlib to communicate trends, leading to potential health policy insights. Improved model accuracy through iterative tuning and feature selection, effectively highlighting trends relevant to medical interventions.

ADDITIONAL PROJECTS

Spaceship Game (HTML5, JavaScript)

- Developed an interactive game using JavaScript for physics simulations, including asteroid and laser interactions based on real-time data inputs.
- Built a scoring system with dynamic updates, analyzing player feedback to enhance the gameplay experience and improve engagement.
- Integrated multiple audio-visual effects to enhance engagement, creating a cohesive gameplay experience.

Green Travel (Figma, Construct 3)

- Designed and implemented an education game interface, balancing UX design with data-informed decisions.
- Gathered and analyzed user feedback to refine design, resulting in noticeable improvements to user retention and interaction time.
- Incorporated iterative feedback into gameplay, using qualitative insights to make the game more engaging and aligned with educational objectives.