Pranay Yalamanchali

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EDUCATION

UC San Diego, CA **Expected Graduation:** 2027
B.S. Mathematics-Computer Science
Courses: Data Structures and Algorithms, Probability, Mathematical Reasoning, Graph Theory and Discrete Mathematics, Systems Programming
Activities: Data Science Student Society, Association for Computing Machinery

Ohlone College, CA **Aug 2023 - Jun 2024**
Courses: Calculus I-III, Linear Algebra, Differential Equations, Programming in C++, Statistics, Macro/Micro Economics
Activities: Ohlone Politics Club, Ohlone AI Club, Ohlone Engineering Society

EXPERIENCE

Brilliant Kids Learning Center, Fremont | *Instructional Assistant* **Oct 2022 - May 2023**
Skills: teaching, teamwork, identity-focused team building, communication

- Designed and delivered personalized lessons for students ranging from elementary to college level in mathematics, chemistry, and Python programming.
- Effectively communicated progress and challenges to supervisors and families, leveraging tools such as email and Zoom.
- Applied identity-focused approaches to build student confidence and engagement, ensuring a supportive tutoring experience.

TECHNICAL SKILLS

- Languages: Python, Java, C
- Libraries and Frameworks: Pandas, Numpy, Matplotlib, Scikit-Learn, Scipy

PROJECTS

- **UCSD Historical Enrollment (Maintainer) – [In Progress / May 2025–Present]**
  Python, TypeScript, Web Scraping, Data Visualization
  - Assisting in the maintenance of a UCSD-wide enrollment data tool used by sites like TritonSea and UCSD Registration Trend
  - Supporting scraping infrastructure and deployment, ensuring accurate and up-to-date course availability data
  - Collaborating with previous maintainers to sustain data pipelines and public API access for student-facing tools
- **Diabetes Classification Project**
  - Built a machine learning model using an SVM model to classify diabetes from the Pima Indian Diabetes dataset.
  - Preprocessed data with standard scaling and implemented feature engineering for optimal model performance.
  - Achieved 78% accuracy, leveraging Python and libraries like Pandas, NumPy, and Scikit-Learn.