Dyuthi (Dyu) Vijay

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Education

University of California Santa Cruz — Santa Cruz, CA
BS Cognitive Science (AI Specialization), Minor in Statistics — *GPA:4.0, Grad: 2026*

Relevant Courses

CSE 242: Introduction to Machine Learning, CSE 20: Introduction to Python, MATH 19B: Calculus 2, MATH 21: Linear Algebra, STATS 131: Introduction to Probability Theory, CSE 240: Artificial Intelligence

Skills

Data Analysis and Visualization:: Python, seaborn, Plotly, Matplotlib, NumPy, Tableau, Biopython, PyTorch
Programming Skills: Python, SQL

Experience

Bioengineering Intern — June '24 – Sept '24
Aquillius - BioTech Startup — *San Diego*

- Analyzed genomic data to identify potential biomarkers for respiratory diseases, resulting in a 15% improvement in disease prediction models' accuracy.
- Used Biopython for sequence analysis for exploratory data analysis, enhancing the identification of key genetic markers.
- Developed Python scripts to automate the preprocessing of genomic data, which included filtering out noise, normalizing data, and aligning sequences, leading to a 32% increase in data analysis efficiency.

Data Analyst Intern — June '23 – Sept '23
Advanced Trustee Strategy Wealth Management — *San Diego*

- Analyzed investment portfolios and provided actionable insights contributing to a 10% increase in client satisfaction scores after portfolio syncs
- Visualized portfolio performance quarterly and monthly with Altair, Quantlib and Bokeh
- Worked closely with the firm's financial advisors to translate complex data into easily understandable insights for clients

Projects

Audio Keyword Classification | *Python* — Jan '24 - June '24

- Developed a model to accurately identify and classify keywords in audio clips, achieving an 87% accuracy rate on keywords within audio clips
- Reduced processing latency by 23% compared to traditional keyword spotting systems, enabling near real-time audio analysis.
- Used Pandas to handle missing values, remove duplicates, and structure the data for efficient analysis, accelerating the data labeling process by 28%

Website Traffic Analysis | *Python* — Feb '24 - May '24

- Collected and analyzed web traffic data using Google Analytics to understand user behavior and identify trends, enabling data-driven decisions that resulted in a 25% increase in user engagement
- Monitored key performance indicators (KPIs) such as unique visits, bounce rate, and session duration to identify trends. Observed trends in visitor geography and demographics, noting which regions and age groups were most active, which informed targeted content.
- Generated reports summarizing web traffic insights and recommended strategies for enhancing user experience and boosting website performance by 18% over the course of 3 months.

Clubs

Casual Coding Club President | *Python* — Jan '24 - Present

- Lead a university coding club focused on developing Python-based solutions for non-profits, organizing workshops to increase member participation and make coding more accessible to everyone.