Hello

I'm Dhruv Patel
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💼 Objective

Detail-oriented Data Science student at UC San Diego with hands-on experience in statistical analysis, data visualization, and full-stack development. Passionate about solving real-world problems with data. Seeking internship opportunities to apply and expand analytical and programming skills.

🧠 Projects (UCSD & Independent)

[League of Legends Win Rate Analysis (2025)](#)

- Applied hypothesis testing on Oracle's Elixir dataset to examine win rate variations by region.

- Used Python (pandas, matplotlib) for data wrangling and visualization of statistical results.

[Mouse Activity & Temperature Analysis (2025)](#)

- Visualized 14-day minute-level physiological data from mice.

- Identified estrus cycle trends and gender-based activity variations using Python and seaborn.

[Boston Cycling Routes Mapping (2025)](#)

- Built interactive route maps for Boston & Cambridge bike data using Folium and geopandas.

- Integrated trip frequency analysis by bike stand to inform urban planning insights.

[Interactive General Knowledge Quiz (2024)](#)

- Developed a web-based quiz game in Java using double linked lists and a custom UI.

- Integrated instant feedback and fireworks animation for correct answers.

[Urbanization & Power Outages (2024)](#)

- Analyzed U.S. outage data (2000–2016) from Purdue's infrastructure lab.

- Explored correlations between urban development metrics and blackout frequency.

🧪 Experience

Peer Mentor, OASIS Summer Bridge – UC San Diego
Apr 2023 – Present

- Mentored incoming first-year students, improving retention and sense of belonging.

- Designed workshops and connected mentees to key academic resources.

STEM Tutor Intern, Boys and Girls Club – LA Harbor
Mar 2022 – Aug 2022

- Provided 1-on-1 tutoring in math and science for grades 6–12.

- Customized learning strategies, improving student grades and confidence.

🎓 Education

University of California, San Diego
Bachelor of Science in Data Science *(Sep 2022 – Present)*

Nathaniel Narbonne High School, Los Angeles
High School Diploma *(Jun 2022)*

💻 Skills

- **Programming:** Python, Java, HTML/CSS, JavaScript, C++, Git/GitHub, Excel, R, etc.

- **Tools & Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Folium, geopandas, etc.

- **Languages:** English, Hindi, Gujarati

- **Other:** Karate (Brown Belt), Competitive Swimming