



Hello

I'm Dhruv Patel

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Skills

- Programming: HTML, Java, JavaScript, Python, CSS, CPP, Excel, Word, GitHub
 - Other: Swimming, Karate
 - Languages: English, Hindi, Gujarati
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Projects

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

- Analyzed regional win rates using Oracle's Elixir data.
- Used hypothesis testing and statistical analysis to evaluate competitive balance.

[Mouse Activity and Temperature Analysis \(2025\)](#)

- Visualized 14-day minute-level data of core temperature and activity in mice.
- Highlighted gender-based patterns and estrus cycle variations.

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

- Plotted Boston and Cambridge City bike routes.
- Included visualization of daily trip frequency per bike stand.

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

- Built with a double linked list in Java to store and navigate quiz data.
- Demonstrates understanding of data structures and interactivity.

[Does Urbanization Affect Power Outages? \(2024\)](#)

- Analyzed major U.S. power outages (2000–2016) using Purdue infrastructure lab data.
 - Investigated urbanization as a possible factor in blackout frequency.
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Experience

Peer Mentor — OASIS Summer Bridge, UC San Diego

April 2023 – Present

- Provided academic and personal guidance to first-year students.
- Fostered inclusive, supportive environments through relationship-building.
- Directed mentees to relevant campus resources to support success.

Intern and Peer Tutor — Boys and Girls Club of Los Angeles Harbor

March 2022 – August 2022

- Tutored middle and high school students in math and science.
 - Developed problem-solving strategies tailored to each student.
 - Ensured completion and comprehension of homework assignments.
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Education

University of California, San Diego

B.S. in Data Science (September 2022 – Present)

Nathaniel Narbonne High School, Los Angeles

High School Diploma (August 2018 – June 2022)

Part of LAUSD.