

# Dhruv Patel

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## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, R, SQL, HTML/CSS, JavaScript

**Libraries & Tools:** Pandas, NumPy, Matplotlib, Seaborn, PyTorch, Folium, GeoPandas

**Other:** Git, Jupyter, Excel, Tableau, ArcGIS

## PROJECTS

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### Public Transit Optimization (2025)

Used GTFS and Census data to identify underserved areas in San Diego County and proposed optimized routes using NetworkX and ArcGIS.

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

Applied hypothesis testing on Oracle's Elixir dataset to analyze regional disparities in win rates using Pandas and Matplotlib.

### Boston Cycling Route Mapping (2025)

Built an interactive trip frequency map using GeoPandas and Folium to visualize usage hotspots and inform infrastructure planning.

### Urbanization & Power Outages (2024)

Explored the relationship between urban expansion and blackout frequency using national infrastructure data and statistical modeling.

### Interactive General Knowledge Quiz App (2024)

Created a Java-based quiz app using double-linked lists and implemented dynamic UI with animated feedback.

## WORK EXPERIENCE

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### Peer Mentor, OASIS Summer Bridge – UC San Diego

Apr 2023 – Present — San Diego, CA

- Mentored incoming first-year students, facilitated workshops, and connected them to campus academic resources.
- Contributed to increasing student retention and community integration through personalized support.

### STEM Tutor Intern, Boys and Girls Club – LA Harbor

Mar 2022 – Aug 2022 — Los Angeles, CA

- Provided one-on-one tutoring for middle and high school students in math and science.
- Created individualized learning plans, leading to measurable improvements in student performance.

## EDUCATION

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### University of California, San Diego

B.S. in Data Science Expected

Jun 2026

Relevant Coursework: Machine Learning, Scalable Systems, Data Visualization, Statistical Inference

### Nathaniel Narbonne High School

High School Diploma

Jun 2022