

Mudra Patel

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EDUCATION

Boston University

Boston, MA

Bachelor of Science in Data Science

Graduation May 2027

Activities: Data Science Association, Phi Chi Theta Fraternity, BU Run Club, BU Alternative Investment Group, BU Indian Club
Relevant Coursework: Algorithms, Data Structures, Linear Algebra, , Software Engineering, Machine Learning & AI, AI Policy

De Anza College

Cupertino, CA

Bachelor of Engineering in Computer Science

2024

PROJECTS AND ORGANIZATIONS

Near-Earth Object 3D Visualizer | Python, Three.js

Jun. 2025 - Jul. 2025

- Engineered a full-stack 3D visualizer, creating a **Python ETL** pipeline to **parse** and **structure 365+** data points per object from the **NASA JPL HORIZONS API**, achieving a **95% reduction** in file size for frontend consumption.
- Developed a real-time interactive 3D frontend with **Three.js**, designing a minimalist HUD-style UI to display **10+** unique telemetry data points, while maintaining a smooth **60 FPS** for an optimal user experience.
- Implemented a **procedural generation** system that uses **3+** scientific parameters (radius, spectral type, rotational period) to automatically create data-driven 3D models for over **90,000** potential Near-Earth Objects.

BU Alternative Investments Group

Boston, MA

Case Analyst

2024-present

- Competing in a case competitions, developing and pitching comprehensive **leveraged buyout (LBO)** strategies with a **structured exit plan** to a panel of **strategic buyers**, local **businesses leaders**, and university **faculty**.
- Conducting in-depth **industry analysis** and **financial modeling**, calculating EBITDA growth, debt reduction, investor returns, and equity value to assess deal feasibility and maximize potential returns.
- Collaborating in a **6** member team to perform **data-driven** due diligence, identifying **key risks**, develop **mitigation strategies**, and refining **valuation techniques**, ensuring a data-driven approach for final **investment proposals**.

Finance Committee

Cupertino, CA

Finance Analyst

2024-2025

- Analyzed year-over-year spending trends across **5+** departments, translating raw **budget data** into **actionable reports** for administrators on **resource allocation** and program funding.
- Developed and presented strategic **financial proposal** to school administrators, detailing **3-5 cost optimization** initiatives that could improve financial sustainability, enabling up to **34%** of funds to high-impact programs.
- Audited **\$2+ million** in financial reports, identifying **key inefficiencies** and proposing cost-saving measures, resulting in a **new policy** that formally included student representation in the yearly budget proposal process.

Track & Field / Cross Country Team & Student-Athlete Advisory Committee

Santa Clara, CA

Team Captain | Head Advisor

2021-2023

- Spearheaded the "Student Section Experience Improvement" project, to drive the student engagement in athletics, increasing sporting event participation by **~15% through targeted initiatives**.
- Captained the Varsity Cross Country team to a **first-ever qualification** for the California Interscholastic Federation (**CIF**) **State Meet**,
- Awards: Most Improved, Coach's Award, CCS Team GPA (2nd place regionals), CCS Varsity (2nd place), RAM Invite (1st place team + individual medal), Firebird Invite Varsity (1st place).*

WORK EXPERIENCE

Gong Cha

Cupertino, CA

Shift Lead

2022-2024

- Oversaw daily store operations at a high volume boba store, led a 3-person team overseeing **300+** daily transactions, improving inventory efficiency, which contributed to an **~85%** customer satisfaction rating.
- Identified opportunities to grow community engagement and revenue by forging 3+ partnerships with local organizations, leading to sponsorship programs that increased **recurring revenue** by **15%** and improved brand visibility.

Wilcox High School

Santa Clara, CA

Assistant Coach, Track and Cross Country

2022-2024

- Assistant Coach for Cross Country and Track & Field, mentoring a team of **75+ athletes** working to refine personalized training plans focused on strength and conditioning that improved performance by **~10%** and athlete retention by **~25%**.
- Designed and implemented a strategic split-team training program for distance runners and throwers, provided skill-specific coaching that resulted in a **20% year-over-year increase** in regional qualifiers.

SKILLS & TOOLS

Programming: Python, C++, Rust, SQL, JavaScript, HTML, CSS | *Libraries:* Pandas, Numpy, Matplotlib, Plotly Dash, Next.js, Three.js | *Tools:* Git, Azure, Adobe Creative Cloud Microsoft Office Mongo DB, CI/CD, Figma | *Data Analysis, Statistics*

Languages: English (native) Gujarati (native), Hindi (native)