

Ohm Patel

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EDUCATION & SKILLS

Brown University · GPA 3.96 / 4.00 · APIA Nakupuna Foundation Scholarship Providence, RI
Combined Sc.B./M.S. program: Sc.B. Mechanical Engineering, M.S. Computer Science Expected graduation May 2028

- **Analytical:** Quantitative and qualitative research, data analysis, competitive and market analysis, cost-benefit and pricing modeling, stakeholder interviews
- **Tools:** Excel, PowerPoint, Python, SQL, MATLAB, TypeScript, Java · Pandas, NumPy, Plotly, FastAPI · LLM APIs

WORK & RESEARCH EXPERIENCE

Eli Lilly & Company Indianapolis, IN
Data & Software Intern, Talent Development Academy May 2026 – Present

- Interviewed scientists across the department to identify the highest-cost manual workflow, then scoped and shipped the internal application that replaced it, cutting manual work by ~40%.
- Moved 15 scientists from manual spreadsheets to a few clicks, driving adoption across multiple programs.
- Built and deployed an LLM-powered document-extraction pipeline to power the change.

Yale University, Schools of Engineering & Medicine New Haven, CT
Engineering Researcher, AMGEN Scholar Summer 2024 & 2025

- Took ownership of the project's direction after initial scoping: defined the questions worth pursuing, designed the experiments to answer them, and used each round of results to prioritize the next.
- Built a Python/FlowKit pipeline quantifying 8 markers across conditions in high-dimensional flow-cytometry data; the findings became the basis for a manuscript under review at Springer Nature (June 2026); ABRCMS travel award.

Brown University, School of Engineering Providence, RI
Engineering Researcher, UTRA Scholar Sep 2024 – Dec 2024

- Designed a repeatable weekly intake-and-validation process that sustained 150 samples/week over a 10-week study
- Standardized 1,500 ion-chromatography records into the PFOA dataset downstream analysis ran on.

LEADERSHIP

Brown Journal of Healthcare Advancement Providence, RI
Editor-in-Chief → Director Sep 2023 – Present

- Led 8 editorial teams through workshops and draft-review pipelines across three published cycles; now own operations and budget as Director.

Brown University Men's Volleyball Providence, RI
Outside Hitter · Captain Sep 2023 – Present

- Captained Brown to its first-ever D1AAA national championship; owned pre-match opponent scouting and led the in-game tactical adjustments driving rotation and serve-receive decisions.
- Ran the off-court operation: travel logistics, budget planning, roster coordination, and social media (500K+ views).

STRATEGY & ANALYTICAL PROJECTS

“What a Pill Is Worth” | Oral GLP-1 Pricing POV 2026
Self-initiated pricing and market analysis ohmppatel.dev/Oral-GLP1-Pricing.pdf

- Built a value-based pricing point of view on how the first oral GLP-1s should be priced against the injectables that built the obesity market.
- Decomposed value drivers, including efficacy gap, convenience, access, and cost-to-serve, into an illustrative price ceiling, then argued for a volume and access play priced below it, at roughly a 45% discount to injectables. Built from public sources only.

SideOut | Volleyball Performance Analytics June 2026 – Present
Founder · Python, MediaPipe/OpenCV, FastAPI github.com/ohmppatel920/sideout

- Sized an underserved market from lived experience: teams pay Hudl ~\$1,200/yr and players ~\$240/yr for film analysis. Ran a competitive analysis of Hudl, Balltime, and open-source tools, then scoped a free, local-first alternative.
- Defined a tiered roadmap shipping standalone value at each stage (jump analysis → film tagging → shot charts); built v1 as a computer-vision pipeline extracting jump height, approach velocity, and load timing from one phone video.

AI Document Analysis over SEC Filings 2025
Retrieval evaluation harness · Python, ChromaDB, RAGAS, SEC EDGAR

- Built a system measuring how reliably AI retrieves and answers questions from SEC 10-K filings, benchmarking 6+ configurations on a 30-question evaluation set.
- Isolated retrieval from generation failure modes so tuning rested on measured evidence rather than intuition, with a cross-encoder reranker giving the largest single-step gain.