Aditya Mittal

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PROFILE

A responsible and dedicated consultant with experience in developing robust recommendations for nonprofit organizations. Skilled in financial analysis, competitor research, and feasibility models. In previous roles, implemented STEM learning models for Cambodian women and optimized clinical trial analysis systems, among others.

EDUCATION

- **Carnegie Mellon University** — Pittsburgh, PA
  Bachelor of Science in Computer Science — *Aug 2022 - May 2026*
- **James Logan High School** — Union City, CA
  GPA: 4.67 (second in class of 850) — *May 2022*
  Vice President of Computer Science Club, Founder of FBLA and Humanitarian Club

SKILLS SUMMARY

- **Skills**: Market Research, Risk Management, UX Optimization, SEO, Advertising, Competitor Analysis
- **Interests**: Applied Mathematics, Data Science, Machine Learning

EXPERIENCE

- **Shell**
  Predictive Maintenance Engineer — *March 2022 - April 2022*
  - **Statistical Analysis**: Found losses due to corrosion and inefficient piping within Shell's oil refineries and estimated gains for switching to automated inspection methods.
  - **Risk Management**: Determined savings and risk required to switch over to a new tool. Reached out to system engineers to plan a sensor implementation timeline and an operational hierarchy for efficient management.
- **BenchSci**
  Machine Learning Consultant — *June 2021 - August 2021*
  - **Market Research**: Researched current roadblocks in clinical trials, and quantified statistics around the lack of proper assay selection and improper population sampling.
  - **ML Engineer**: Used natural language processing models to match research papers that discussed similar drug compositions. Ranked papers based on sample size and paper confidence.
  - **Audience Sampling**: Talked to over 300 professors and 100 HR representatives to scope out interest for the idea and estimate potential cost. Modeled user engagement on BenchSci's monthly newsletter.
- **UN Women**
  Project Member — *March 2021 - April 2021*
  - **Consultant**: Submitted a recommendation detailing solutions to fix female discouragement for joining STEM in Cambodia. Quantified how advertising would bolster outreach and estimated financial costs. Praised by head of UN Women board.
  - **Advertising Modeling**: Reached out to advertising and SEO experts in Cambodia to determine the best medium to reach Cambodian women. Created app/website mockups and showed platform to Cambodian STEM teachers for feedback.
- **PathCheck Foundation**
  Junior Fellow — *November 2020 - March 2021*
  - **Consultant**: Presented a marketing recommendation to reach 50% adoption for their contact tracing app rollout in Minnesota and Louisiana. Used predictive modeling to determine where to place targeted ads.
  - **Research Analyst**: Collected and analyzed PathCheck user data to drive information projects about COVID-19 and expand awareness about public health issues.
- **Pocket RN**
  Financial Modeler — *October 2020 - June 2021*
  - **Data Science**: Created financial models to project future sales (6 months, 1 year, 5 years) and user count.
  - **Fundraising Consultant**: Ran competitor analysis in the telemedicine market to determine Pocket RN's strengths and weaknesses. Assisted in pitch deck for their seed round.

HONORS

- **Credentials:** AWS Solutions Architect - Associate, AI Programming with Python Nanodegree

- **Hackathons:** Best Design at LaunchHacks, 1st Place in EcoHack Unity College, Best Technical in TKS Focus Hackathon

- **Awards:** Salutatorian, National Merit Semifinalist, AIME Qualifier