

# Parth Mehta

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## EDUCATION:

### UC San Diego

Class of 2027

- B.S. in Computer Science

## EXTRA-CURRICULAR ACTIVITIES:

### Intern, Photon Commerce

2023 Summer

- Improved Python-based data extraction pipelines using rule-based logic to increase accuracy on financial inputs
- Collaborated with the Head of Engineering on integrating ML-ready outputs into internal APIs for downstream modeling
- Contributed in a fast-paced startup environment, debugging real-world data issues and shipping production-level code

### Data Analyst, Lumnus Consulting

2024 - Present

- Resolved domain and deployment issues after site expiration, restoring web presence and ensuring continued client access
- Rebuilt key sections of the company's internal website, improving layout and responsiveness across devices
- Worked directly with a client company to refine and prompt large language model (LLM) queries for business analysis

### Tutor, FUSS4Schools

2020-2022

- One-on-one and group tutoring in Algebra, Python, and Java to middle and high school students
- Adapted teaching methods to diverse learning styles, improving student engagement and comprehension
- Volunteered 40+ hours every summer to support community STEM education initiatives

### Co-Founder, Web Development Club

2021-2024

- Designed and delivered weekly curriculum on HTML/CSS/JS to 30+ students
- Led development of 5+ websites for local businesses, improving online reach and UX

### Officer, Science Olympiad

2021-2024

- Placed 1st regionally 4 consecutive years across multiple engineering events
- Coordinated event prep, training schedules, and team logistics for 30 members

## PROJECTS:

### Blackjack ML Bot

Present

<https://github.com/AwesomeCoder30/blackjack-ml-bot>

- Built a reinforcement learning agent using Q-learning to play Blackjack and maximize win rate
- Developed a Flask backend with training, evaluation, and full game simulation endpoints
- Engineered a dynamic frontend with Bootstrap/JavaScript to visualize agent decisions in real time
- Tracked performance metrics using Pandas and Matplotlib, enabling live performance monitoring

## SKILLS:

- **Languages:** Python, Java, C, JavaScript, HTML/CSS, SQL, TypeScript
- **Frameworks/Libraries:** Flask, React, Bootstrap, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
- **Tools/Software:** Git, Linux, VS Code, Jupyter, Docker, WordPress, LaTeX, Microsoft Excel