

# Vishal Patel

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## EDUCATION

### University of California, San Diego

B.S. in Cognitive Science with specialization in Machine Learning and Neural Computation.

Minors - Data Science and Finance

La Jolla, CA

Major GPA: 3.9

Expected Fall 2025

- **Honors:** Provost Honors, Good Standing
- **Relevant Coursework:** Data Analytics, Accounting, Supervised Machine Learning, Artificial Intelligence, Unsupervised Machine Learning, SQL, Reinforcement Learning, Deep Learning, AWS, Data Management, Systems for Scalable Analytics

## WORK & LEADERSHIP EXPERIENCE

### Casepoint Intern

Internship

Tysons Corner, Virginia

September 2024 – November 2024

- Joined Casepoint's cybersecurity blue team to enhance log management and security monitoring capabilities
- Tasked with implementing and configuring Graylog (a SIEM tool) to improve real-time monitoring and log message analysis
- Configured Graylog inputs for seamless log ingestion, created and optimized parsing rules with GROK patterns, and set up alert systems to monitor security events, such as failed logins and session anomalies.
- Successfully established a reliable log management framework that increased system security monitoring efficiency and reduced time spent on manual log analysis by 25%

### UCSD ITS Classroom Maintenance Assistant

Part-time Job

La Jolla, CA

November 2023 – Present

- Ensured all lecture halls are ready and prepared for daily use by the professors
- Conduct regular maintenance Monday – Friday for approximately 40 classrooms and 21 lecture halls
- Exchange microphone transmitter batteries, perform surface cleaning, and resolve technical issues with lectern software
- Achieved a 33% reduction in trouble calls, ensuring a smooth daily teaching operation

### Trago Tech

Intern

Los Angeles, CA

July 2023 – September 2023

- Assigned to develop a small-scale machine learning model as a precursor to a larger predictive modeling project
- Gather and prepare data for model deployment, utilizing web scraping and feature engineering techniques
- Prepared a 50 observations dataset and applied a Logistic Regression model tailored for future applications
- Successfully developed and implemented a foundational predictive model for future use with an 80% accuracy

### Auro Pharmaceuticals, Inc.

Volunteer

La Habra, CA

July 2022 - September 2022

- Tasked with optimizing production, quality control, and billing processes to enhance efficiency and accuracy
- Identified operational bottlenecks in production and billing processing aimed to improve quality assurance and procedures
- Implemented quality control through rigorous pressure testing and developed an Excel sheet for faster billing processes
- Increased production quantity by 20% per week while also speeding up the billing process by 15%

### Office of Student Disability (OSD)

OSD Note Taker

La Jolla, CA

Sept. 2021 – Dec. 2021 | Sept. 2022 – Dec. 2022

- Provide note-taking assistance for students registered with OSD
- Generated comprehensive lecture notes for students with disabilities
- Attended lectures regularly and created roughly 60 detailed notes while regularly sending notes promptly
- Supported students' accessibility and their academic success via detailed notes

## CERTIFICATIONS

- AWS Machine Learning Specialty earned on November 23, 2024
  - Data Engineering, Machine Learning, Cloud Engineering, Model Evaluation and Validation, Exploratory Data Analysis
- Machine Learning by Stanford University & DeepLearning.AI on Coursera earned on August 14, 2023
  - **Unsupervised Learning, Recommenders, Reinforcement Learning:** PCA, Clustering, Collaborative Filtering
  - **Advanced Learning Algorithms:** Decision Trees, Multiclass Classification, Artificial Neural Networks, SoftMax
  - **Supervised Machine Learning:** Regression, Classification, Gradient Descent, Logistic Regression

## TECHNICAL SKILLS

**Languages:** Java, Python, HTML, SQL

**Developer Tools:** Git, VS Code, IntelliJ, Sublime Text, Jupyter Notebook, Tableau, AWS, Dask, Graylog

**Libraries:** pandas, NumPy, Matplotlib, Sci-kit learn, Tensor Flow, Flask, spacy, PyTorch

## ACTIVITIES & INTERESTS

**Awards:** Eagle Scout Award

**Activities:** Project RISHI (UCSD) – Computer Literacy / Financial Literacy Committee Member, DS3 (UCSD) – General Member

**Hobbies and Interests:** Gardening, Carpentry, Golf