

# 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 June 2025

- **Honors:** Provost Honors, Good Standing
- **Relevant Coursework:** Data Analytics, Data Science, Neurobiology, Finance, Accounting, Supervised Machine Learning, Artificial Intelligence, Unsupervised Machine Learning, SQL, Reinforcement Learning, Deep Learning

## WORK & LEADERSHIP EXPERIENCE

### 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

### 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 billing process by 15%

### Boy Scouts of America

*Senior Patrol Leader/Assistant Junior Scoutmaster*

Cerritos, CA

- Led Boy Scout trip through various activities specially designed to teach all scout outdoor life skills; first aid, knots, fire building, safe knife use
- Directed our Boy Scout troop to attain a prestigious recognition award at a summer camp competing against 20 other troops
- Increased average troop meeting and outdoor excursion attendance by 23%
- Led an Eagle Project at a local municipal airport; raised \$220 by designing and carving custom-made wooden plaques to acquire all necessary parts and provide lunch for volunteers

### 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 in timely manner
- Supported students' accessibility and their academic success via the detailed notes

## CERTIFICATIONS

- 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
- Python (Basic) on Hacker Rank earned on October 9, 2023
  - Scalar types, Operators and Control Flow, Strings, Collections and Iteration, Modularity, Objects, Types & Classes

## TECHNICAL SKILLS

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

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

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

## ACTIVITIES & INTERESTS

**Awards:** Eagle Scout Award

**Activities:** Project RISHI (UCSD) – Committee Member, DS3 (UCSD) – General Member

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