

# 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*

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

La Jolla, CA

Major GPA: 3.9

Expected Spring 2025

## WORK & LEADERSHIP EXPERIENCE

### Lead Technical Intern | UCSD ITS

La Jolla, CA

*Intern*

April 2025 – Present

- Spearheaded agent-based AI platform development, leading interns through design, prototyping, and implementation.
- Authored clear Agentic AI framework documentation and tutorials for seamless integration and scalability.
- Provided technical leadership, resolving design challenges and ensuring efficient implementation.
- Accelerated platform adoption and future-proofed AI architecture through hands-on guidance and streamlined processes.

### R&D AI Intern | Gainserv Infotech

Remote

*Intern*

January 2025 – Present

- Tasked with developing end-to-end AI solutions to enhance business intelligence and using customer-provided data
- Built a predictive customer churn model and an agentic RAG system for autonomous knowledge retrieval and task execution
- Fine-tuned LLMs with structured/unstructured data and optimized models via class weighting, early stopping, and Optuna
- Create RAG workflow in n8n utilizing Agentic AI, integrating LLMS and vector databases for autonomous knowledge retrieval and task execution

### Classroom Maintenance Assistant | UCSD ITS

La Jolla, CA

*Part-time Job*

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

### Cybersecurity Intern | Opexus Casepoint

Tysons Corner, Virginia

*Intern*

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%

### ML Engineer Intern | Admitscope

Los Angeles, CA

*Intern*

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

## 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, transformers

## ACTIVITIES & INTERESTS

**Awards:** Eagle Scout Award

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

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