

Vedant Patel

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EDUCATION

University of California Davis

Expected Jun 2025

Bachelor of Science (B.S.) in Computer Science, Minor in Technology Management

Davis, CA

- Data Structures & Algorithms, Circuits, Computer Organization & Programming, Combinatorics, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics, Embedded Systems

EXPERIENCE

Software Engineering Intern

Oct 2024 – Present

DrevoL

Seattle (Hybrid), CA

- Developed and deployed AI-powered solutions to enhance operational workflows, leveraging **advanced image recognition and natural language processing (NLP) models** to automate user interactions and streamline processes, resulting in a 25% reduction in manual effort.
- Integrated machine learning algorithms into enterprise systems, **optimizing predictive analytics** and delivering actionable insights that improved system accuracy by **30%** and enhanced decision-making efficiency
- Engineered and refined automation solutions utilizing **C#, .NET, and SQL** for core business processes, driving a **20%** boost in task efficiency through effective collaboration with cross-functional, multi-shore teams.

Machine Learning Research Assistant

Feb 2024 – Present

UC Davis

Davis, CA

- Engineered efficient low-power algorithms for ECG signal classification, achieving **92.8%** accuracy using a **TinyML ensemble Random Forest Classifier** and significantly enhancing battery life for wearable devices
- Achieved **93.6%** predictive accuracy in **anomaly detection** through advanced feature engineering and strategic hyperparameter tuning with GridSearchCV
- Employed **SHAP and LIME** techniques to optimize **Deep Neural Network** and **Recurrent Neural Network** model for **time-series data**, resulting in a **7%** accuracy boost in constrained device environments

Data Science Intern

Oct 2021 – Dec 2021

ArtifIntel Pvt. Ltd.

Bengaluru(Remote), India

- Executed comprehensive **data preprocessing** and transformation on inconsistent datasets, employed **classification and regression** techniques for training supervised learning models to achieve an impressive **98% accuracy**
- Created detailed visual reports with **Matplotlib and Seaborn**, enhancing data interpretability and enabling a **25%** improvement in strategic planning accuracy across multiple departments

LEADERSHIP

Project Manager

Jan 2024 – Apr 2024

CodeLab

Davis, CA

- Led the Summarizit project team to develop an innovative web application that analyzes and summarizes extensive video content, resulting in a **40% increase in user productivity and information accessibility**
- Engineered scalable web applications with **React, Node.js, Express, and MongoDB** optimizing **CRUD routes** to increase data retrieval speed by **40%** and enhance overall system performance by **25%**

Technology Director

Sep 2023 – Present

Google Developers Student Club (GDSC)

Davis, CA

- Spearheaded AI/ML projects including a music recommender and medical chatbot, while organizing industry expert lectures, resulting in **35% increase in user engagement and 40% growth in professional network**

PROJECTS

InvestIQ AI | NextJS, TailwindCSS, Vercel, LLMs

Jun 2024 – Present

- Spearheaded the development of an AI-driven personal finance web application, integrating machine learning algorithms to provide predictive financial analysis with **90% accuracy and optimize portfolio performance by up to 15%**
- Engineered a full-stack solution featuring an intelligent chatbot with 95% user query resolution rate, and data visualization tools that **reduced financial decision-making time by 30%**

Scream Detection Deep Neural Network | Python, MLP, Deep Learning, React

Apr 2023 – Apr 2023

- Developed and deployed **SVM regression** and **Multi-Layer Perceptron (MLP)** models for real-time distress call detection, achieving an overall accuracy rate of **93%** by distinguishing acoustic level differences

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, C#, SQL HTML5/CSS3, R, MATLAB

Frameworks: Next.js, Postgres, PyTorch, Prisma, Vercel, Django, .NET, React, Node.js, Flask, MongoDB, AWS

Developer Tools: Git, Docker, CI/CD, Google Cloud Platform, VS Code, PyCharm, Eclipse, TensorFlow, Jupyter