

# Addhyan Kohli

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<https://github.com/Addykohli>

Aspiring Software Engineer | Machine Learning & Full Stack Development

## EDUCATION

### San Francisco State University

Bachelor of Science in Computer Science, Minor in Mathematics

San Francisco, CA

Aug. 2021 – December 2025

## PROJECTS

### Frontend Lead & AI Feature Developer | Tutoring Platform — React.js, OpenRouter AI, FastAPI, AWS 2025

- Designed and implemented an AI-powered conversational search assistant leveraging OpenRouter's LLM API (DeepSeek R1), enabling natural language queries to dynamically generate SQL and return contextual tutor recommendations
- Led UI/UX development for a React.js frontend with emphasis on user-centered design, including intuitive filtering, real-time messaging, and responsive mobile layouts
- Built end-to-end AI workflow: prompt engineering, context-aware personalization (role-based filtering), function calling for SQL execution, and seamless result rendering in the frontend

### Ai Integrated Fps Simulation | Gemini API, Pygame, Pybullet, PyOpenGL 2025

- Implemented 3D object interaction system with realistic physics-based destruction
- Integrated Google's Gemini API to process natural language descriptions and generate structured configuration data

### Machine Learning | Python, Scikit-learn, PyTorch, TensorFlow, Jupyter 2023 - 2025

- Developed multiple ML models for classification and regression, including a digit image classifier and a language model.
- Built and optimized a PyTorch-based pipeline combining classification and regression, demonstrating model optimization and deployment workflows.
- Experienced with model evaluation and bias awareness in predictions.

### Live Full Stack Web App | React, Node.js, Mysql, Git 2024

- Built and deployed a live multiplayer web application, handling real-time interactions and concurrency.
- Managed backend performance and scaled deployments under hosting limitations.
- Experience with end-to-end product development, reflecting early startup-style project ownership.

## EXPERIENCE

### Mathematics and Computer Science Tutor

SUNY Plattsburgh

Sept 2022 – May 2023

SUNY Learning Center, NY

- Tutored 20+ students in Calculus, Discrete Mathematics, and Linear Algebra, improving student performance

### Research and Development Intern

Dream-Dezign

October 2020

Ghaziabad, India

- Researched futuristic designs and future trends in design
- Creating PowerPoint presentations for company staff

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, HTML/CSS, R, MATLAB

**Frameworks:** PyTorch, TensorFlow, scikit-learn, Google Gemini API, Node.js, React, MySQL, pandas, NumPy, Matplotlib

## AWARDS AND LEADERSHIP

**Deans List:** Spring 2023, Fall 2023, Spring 2024, Fall 2024

**Leadership:** AI Club at SFSU, Recruitment Chair at Delta Sigma Phi