

Yash Patel

San Francisco, CA | yashspatel0054@gmail.com | +1 7246055698 | linkedin.com/in/YashPatel
github.com/YashPatel54

Education

-
- San Francisco State University, BS in Computer Science** Jan 2022 – Present
- GPA: 3.76/4.0
 - **Coursework:** Data Structures, Algorithms, Web Software Development, Machine Structures, Software Development, Operating Systems, DBMS, Software Engineering, Deep Learning.

Experience

-
- CSME, San Francisco State University, CA** Jan 2023 – May 2024
- Instruct SCI 226 (Calculus) students at San Francisco State University, providing individualized tutoring on topics such as differentiation, integration, and transcendental functions. Delivered tailored learning strategies that led to a 30% improvement in student assignment grades within one semester.
- METRO Academy, San Francisco State University, CA** Jan 2024 – Present
- Serve as a student leader at Metro at SF State, driving outreach initiatives to engage and support the student community. Provide academic and personal counseling to university students, helping them navigate coursework, campus resources, and university-related concerns.

Projects

-
- GRADIENT – AI-Based Grading Software**
- Served as **Frontend Lead**, developing a responsive user interface for automated grading using **React.js and JavaScript**.
 - Collaborated with teammates on backend and AI model integration, balancing task distribution across the team.
 - Delivered a functional grading platform that improved evaluation speed and consistency, showcasing both technical and leadership skills.
- ActionNet – Deep Learning-Based Video Action Classification**
- Designed and implemented a **video action recognition system** to classify human activities using deep learning models.
 - Developed and trained **CNN and LSTM architectures** to analyze spatial and temporal patterns from YouTube video datasets.
 - Utilized **OpenCV** and **MoviePy** for video frame extraction and preprocessing, improving data pipeline efficiency.
 - Compared model performance using metrics such as **accuracy, F1-score, and confusion matrix**, achieving strong temporal classification accuracy.
- Full Stack Bank Application**
- Built a banking web app with **React.js, Java, and MongoDB**, integrating secure client-server communication.
 - Designed a responsive UI with HTML, CSS, and JavaScript, ensuring a seamless user experience.
 - Implemented backend authentication and reliable data storage for scalability.
- Task Management System (YashtmDB)**
- Designed and implemented a **MySQL-based database** to manage tasks, projects, and user roles.
 - Automated workflows with **triggers, stored procedures, and functions** to streamline task tracking.
 - Optimized SQL queries for scalability and real-time monitoring.

Technical Skills

Programming: Python, C++, Java, JavaScript, SQL, HTML, CSS.

Frameworks & Libraries: React.js, Node.js, Express.js, Bootstrap, TensorFlow, Keras, PyTorch, OpenCV.

Databases & Tools: MySQL, MongoDB, SQL Workbench, ER Diagrams.

Dev Tools: Git, GitHub, VS Code, Xcode, Postman, Figma, MoviePy.

Core Concepts: DSA, OOP, DBMS, RESTful APIs, SDLC, Agile, Deep Learning, Computer Vision, LSTM, CNNs, Version Control, Cloud Deployment.