

Sandesh Poudel

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EDUCATION

B.S in Computer Science – SUNY Plattsburgh | May 2025 | GPA: 3.96

- **Minor:** Finance, Mathematics
- **Relevant Coursework:** Data Structure and Algorithms, Operating Systems, Machine Learning, Theory of Computation.

SKILLS

TypeScript, React, Node.js, Python, C++, PostgreSQL, Flask, Next.js, OpenCV, FastAPI, HTML/CSS, Selenium, Git, TailwindCSS, QT, AWS

PROJECTS

MetaScan – Face Recognition & Reverse Image Search

- Developed an AI-powered face recognition system using OpenCV, Flask, Selenium, and Gemini API for real-time detection and identity analysis.
- Built a Flask dashboard to display captured faces, run reverse image searches, and summarize findings in a user-friendly interface

Speech-to-Math Calculator – Voice-interactive calculator

- Created a speech-driven calculator using Python, SpeechRecognition, Tkinter, and TTS,
- Enabled natural language math computation and visual interface.

PDF AI Assistant – Chat-enabled PDF reader with AI

- Built a full-stack PDF assistant with React and FastAPI, allowing users to upload PDFs and interact through AI-driven chat.
- Integrated Gemini API to generate summaries, extract content, and create Q&A flashcards.

Inventory Management – C++, QT, PostgreSQL

- Built a desktop tool in C++ using the Qt framework with PostgreSQL for real-time inventory and order tracking.
- Enabled relational queries and efficient updates to simulate small-business inventory operations.

Internships & Experience

Intern, Meso-American Landscapes – SUNY Plattsburgh | Aug 2024 – Dec 2024

- Automated language detection for 150K+ Central American place names using MediaPipe's TFLite model, achieving 98% accuracy for English/Spanish classification.
- Wrote a batch-processing script to output high-confidence language tags and probabilities to CSV, enabling geospatial mapping and further ArcGIS analysis.

ITS Helpdesk Technician – SUNY Plattsburgh | Aug 2023 – May 2025

- Delivered technical support to students and faculty, resolving hardware, software, and network issues through both in-person and remote assistance.

LEADERSHIP EXPERIENCE

Vice President, Student Association – SUNY Plattsburgh | Aug 2024 – May 2025

Teaching Assistant, Data Structures and Calculus II