Adit Khandelwal

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Education

University of California, Merced *Aug 2022 – Dec 2025*
BS in Computer Science and Engineering GPA: 3.74/4.00
Courses: SWE, Computer Vision, Robotics, Intro to ML, Full-Stack Web Dev, Data Structures & Algorithms

Experience

Owligator - Startup *San Francisco, CA*
AI/ML Engineer *May 2025 – current*
- **Enabled 90% accurate automated wine inventory tracking** by building a **YOLOv8 + PaddleOCR** pipeline to extract label details (brand, varietal, vintage), saving time and reducing cataloging errors
- Increased **inventory reliability** by designing a **fuzzy matching and embeddings-based similarity search algorithm**, preventing duplicate bottle entries
- Reduced rescans and ensured consistent cellar inventory counts by enhancing **OCR robustness** through label segmentation (bounding boxes) and preprocessing workflows.

SmartGrid Laboratory *Merced, CA*
Undergraduate Researcher *Jan 2025 – Current*
- **Generated 10k+ occupancy data frames** by deploying **thermal sensor networks** across classrooms and labs, providing a foundation for research in energy-efficient, smart-building management
- Achieved **95% classroom usage prediction accuracy** by developing Python pipelines to preprocess, label, and timestamp sensor data, enabling more reliable occupancy forecasting
- Improved the **reliability of occupancy insights for HVAC optimization** by auditing sensor deployments against ground-truth counts and fine-tuning both hardware and model parameters

UC Merced Office of IT *Merced, CA*
ServiceNow Student Technology Consultant *Jul 2024 - Current*
- Accelerated request fulfillment by delivering **80%** of sprint stories on schedule, **collaborating with stakeholders** to design custom ServiceNow request forms and knowledge bases tailored to departmental needs
- Reduced turnaround times and improved service reliability by automating IT workflows with **JavaScript** scripting and resolving **100+** cross-departmental requests in a persistent **Agile** team environment

AI/ML Engineer Intern *Fremont, CA*
Relanto (AI-First Lab) *Jun 2025 – Aug 2025*
- Enabled non-technical staff to **query sales and marketing data in plain English** by developing a Natural Language to SQL pipeline, **accelerating data exploration** and decision-making
- Delivered a **5x speed-up** in query response times, reducing delays for business users and enabling near real-time analytics by optimizing the NL2SQL pipeline with **Ollama + Phi4-mini**, **FastAPI, and Streamlit.**
- Improved **analytics reliability** on company-wide sales/marketing data by applying prompt engineering and error handling, **reducing failed queries** and ensuring consistent results

Projects

Rate My Professor Discord Bot *Jan 2025 - Feb 2025*
Python, BeautifulSoup, Discord.py, GraphQL, Pandas
- Automated professor lookups by scraping and normalizing **2000+ RMP profiles** with GraphQL + BeautifulSoup, **eliminating manual searches** and delivering ratings, difficulty scores, and top tags instantly
- Deployed as a slash-command Discord bot **serving 300+ UC Merced students**, **reducing search-to-result time from minutes to** $< 1s$ and enabling data-driven course planning discussions

Leadership/Activities

Society of Asian Scientists & Engineers — Treasurer & Web Developer *Jan 2024 - Current*
- Secured **$12,000+** in funding from regional sponsors expanding the club's budget for major events
- Organized and hosted SASEHacks, an inaugural hackathon with **80+** participants and **$5,000** in prizes
- Delivered technical workshops on Git/Github, MS Power Platform, and React to **30+** students

Skills

Programming Languages: Python, C/C++, Java, SQL, JavaScript (HTML/CSS), Typescript
AI/ML & Data: TensorFlow/Keras, PyTorch, scikit-learn, OpenCV, NumPy, Pandas, Matplotlib
Frameworks & Tools: FastAPI(asynch), Flask, Streamlit, React, Node.js, Git/GitHub, Docker, Heroku
Languages: English (Fluent/Native), Hindi (Fluent/Native), Spanish (3 years), Japanese (Elementary)