

# Sumit Mantri

Mountain House, CA | [smantri@ucdavis.edu](mailto:smantri@ucdavis.edu) | [GitHub](#) | 669-268-7993

## Education

---

*University of California, Davis* - Computer Science and Statistics (Machine Learning Track)

## WORK EXPERIENCE & ACTIVITIES

---

**UC Davis Research - Dr. Tagkopoulos Lab**

*May 2025 -*

- Understood the **D3PM model** implementation and fine tuning of the model in creating synthetic sequences that can be tested in real world

**Artificial Intelligence Student Collective - SWE in Objected Detection**

*October 2024 -*

- **Web-Scraping** to gather data for our test set via **Selenium** and chrome Web Driver
- Used **You Only Look Once (YOLO) model** through TensorFlow framework to provide live haptic feedback to the user

## PROJECTS

---

**Image Segmentation**

*June 2024 - July 2024*

- Built a **U-Net convolutional neural network** in TensorFlow/Keras for **semantic image segmentation** on a self-driving car dataset.
- Achieved **90% accuracy** by designing and testing modular **U-Net blocks (convolution, pooling, upsampling)** to ensure correct architecture using model summaries

## CERTIFICATIONS

## TECHNICAL SKILLS

---

**Languages:** Python 3, C++, Java, R, MATLAB, HTML, CSS, Node.JS, Javascript, MongoDB