

Akash Anand

axaanand@ucdavis.edu | <https://www.linkedin.com/in/akash-anand06> | github.com/akashanand617

EDUCATION

University of California, Davis

Davis, CA

B.S. in Data Science, B.A. in Economics (Specialization in Data Analytics and Policy)

Sept. 2024 – May 2027

Relevant Coursework: Data Structures & Algorithms, Calculus III, Linear Algebra, Statistical Data Science, Regression Analysis, Abstract Mathematics and Proof-writing

Coppell High School

Coppell, TX

AP Calc BC, AP Computer Science, AP Statistics, CS 3 Honors

Aug. 2022 – May 2024

EXPERIENCE

Research Project Summer Intern

July 2023 – August 2023

HCLTech

Remote

- Performed Exploratory Data Analysis(EDA) to identify key insights in a security and anomaly dataset
- Understood the application of NLP using Deep Learning and Machine Learning in Python

RICE Elite Tech Summer Camp

July. 2023 – Aug. 2023

Rice University

Remote

- Learned of the Application of AI in Smart Cities
- Used Python to design and implement a neural network algorithm for classifying real-world images and using the resulting knowledge to make the human environment safer, healthier, and more efficient.
- Learned Deep Learning Fundamentals

PROJECTS

Multimodal YouTube Video Summarizer | *Whisper, CLIP*

Apr. 2025 – Present

- Building a **multimodal summarization pipeline** using **Whisper**, **CLIP**, and GPT-4 to generate **context-aware** summaries from audiovisual data.
- Encoding keyframes with **OpenCV** and CLIP, integrating **visual semantics** with transcripts for enriched LLM input.

Diamond Price Predictor | *RandomForest, Decision Tree, Python, VScode*

Mar. 2025 – May 2025

- Conducted Exploratory Data Analysis on a kaggle diamond prices dataset to understand the data and its relation to the predicted value
- Used RandomForest and Decision Trees models to predict the price based on the other columns and assessed the accuracy of both models compared to each other.
- Built a frontend in VScode that includes a user-friendly interface that can use a diamond's features to predict its price based on the trained RandomForest model

Analysis of Open-Vocabulary Object Detectors. | *GroundingDino, YOLO-World, rCNN* Jan. 2025 – Mar. 2025

- Conducted comparative analysis of RCNN, YOLO-World, and GroundingDINO for object detection on an apple dataset using IoU, precision, recall, and F1 score.
- Built a Robustness Evaluation Dataset with complex scenes and abstract prompts to test model generalization

TECHNICAL SKILLS

Languages: Java, Python, R

Tools: Microsoft Word, Excel, Access, PowerPoint, Tableau, Adobe Acrobat, Visio, Latex, VSCode

Developer Tools: Git, Anaconda, IntelliJ, Jupyter Notebook, Firefox, Rstudio/Quatro

Libraries: pandas, NumPy, Matplotlib, Seaborn, scikit-Learn, RandomForest