

Arnav Akula

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EDUCATION

University of California, Davis | Davis, CA

Expected Graduation: June 2026

B.S. in Computer Science and Statistics (Machine Learning) | GPA 3.88/4.00

EXPERIENCE

Associate, Research and Development | *AI Student Collective, Davis*

March 2024 – Present

- Collaborated with researchers to write a research paper on identity theft and credit card fraud
- Developed predictive models and conducted data analysis to enhance fraud detection, ensuring high model accuracy of 96% and decreasing the rate of false positives by 25%

Project Manager | *Aggie Sports Analytics*

March 2024 – Present

- Directed a cross-functional team of developers, designers, and business members to create VolleyViz, an interactive AI-based volleyball game simulator that optimizes game strategy and makes key insights on team strengths/weaknesses
- Collaborating with UC Davis volleyball teams to tailor this application, enhancing coaching strategy and team performance

Project Manager | *AI Student Collective, Davis*

October 2023 – May 2024

- Directed a group of 5 members over an 8 week sprint in developing an ML-based customer churn predictor
- Developed and executed a comprehensive 2-week bootcamp in ML fundamentals to enhance skill proficiency
- Managed deadlines and delegated tasks to streamline workflows and optimize efficiency, fostering collaborative learning

Software Engineer | *Aggie Sports Analytics*

October 2022 – March 2024

- Created and deployed a real-time pose detection model using the YOLO algorithm for basketball shot form correction, elevating player performance for the men's basketball team and providing more precise player analytics for coaching staff
- Leveraged LLMs to develop a natural language chatbot to offer conversational guidance for fantasy football; collaborated with media and business members to showcase project at case competition, ultimately winning first place

Project Intern | *Venuelytics.ai*

May 2022 – September 2022

- Built data pipelines to process 200,000+ hotel reviews into 12 distinct feature sets, streamlining data organization
 - Constructed a neural network model for concise tagging of hotel reviews, extracting strengths and weaknesses for hotels from reviews to provide valuable insights for hotel staff
 - Collaborated with the development team to fine-tune and optimize the model, ensuring a high level of accuracy (~98%)
 - Prepared and delivered presentations to explain the functionality of the model with a multidisciplinary team of 20+ members, resulting in software integration and application deployment
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PROJECTS

MentalWell Connect

- Collaborated with a team of 6 in building a mock platform to provide accessible and personalized mental health support
 - Implemented a Friend Finder feature using a KNN clustering model, enabling users to connect with like-minded individuals
 - Integrated a blog and TCP/IP chatroom, fostering a community for users to share experiences and seek anonymous support
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SKILLS

Languages: Python, Java, C++, C, C#, HTML, CSS, Javascript, R, MATLAB

Proficiencies: Data science, machine & deep learning, natural language processing, computer vision, generative AI

DS/ML: Numpy, Pandas, Scikit-learn, Keras, Tensorflow, PyTorch, OpenCV, NLTK, Langchain, MediaPipe, Matplotlib

Frameworks/Tools: Flask, React, Express, Node, FastAPI, MongoDB, MySQL, PostgreSQL