Angad Kapoor

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EDUCATION

University of California, Los Angeles — Los Angeles, CA
BS, Mathematics of Computation — *expected June 2025*

- ACM AI Projects Team, DailyBruin Online
- *Courses:* Data Structures, Computer Organization, Software Construction Lab, Linear Algebra, Discrete Math, Applied Numerical Methods

Dhirubhai Ambani International School — Mumbai, India
IB Diploma — *May 2021*

- GPA: 3.96/4.00, IB Score: 43/45

EXPERIENCE

Software Engineer Intern — July 2023 - August 2023
PolicyBazaar - an online insurance aggregator — *Gurgaon, India*

- Implemented computer vision-based image processing tool for car part detection and extraction using **PyTorch** and **Tensorflow**
- Analyzed existing user footage using **MongoDB** to identify patterns in uploaded videos before processing
- Established pipeline for object detection and semantic segmentation for continuous processing on incoming video footage
- Automated video inspection process for auto insurance policy generation and reduced time spent per video by 50%

R&D Software Intern — June 2022 – August 2022
ideaForge Technology Pvt Ltd. - an autonomous drone manufacturer — *Mumbai, India*

- Trained a **Tensorflow**-based semantic segmentation model on an open-source land cover dataset, and used it to distinguish fallow and forested land from crop land in image and video data collected by ideaForge drones
- Performed object detection on the segmented images and videos using the DeepForest **Python** library
- Conducted research on hyperspectral imaging processes, and the application of ideaForge's UAV systems to the same

Software Engineer — October 2021 – April 2022
DailyBruin — *Los Angeles, CA*

- Member of External Sites team, working on creating interactive webpages highlighting ongoing events of interest
- Implemented image display, navigation features and plugins using **React** and Styled Components
- Worked on the Native American Heritage Month, UCLA vs USC Rivalry and Grammy Awards Feature webpages

PROJECTS

Twelfth Man - Full Stack Web App — Oct. 2022 - Dec. 2022

- Created full-stack cricket game and tournament management system, with live scoring and game statistics
- Built responsive frontend using **React** and served with **Express** to dynamically display data
- Led development of **Node.js** backend, and designed **MongoDB** database schemas for storage of player, game, tournament data

Posture - A Personal AI Gym Trainer | *Winner, AtlasHacks 2021* — July 2021

- Created **Tensorflow**-based neural network that uses a live video feed to provide real-time audio and visual feedback on one's form and posture while performing squats
- Extracted joint and body part angles for processing and prediction using **Mediapipe**
- Integrated the live video feed and hosted it on a **Flask** website to create the entire front-end for the responsive application

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS
Libraries and Frameworks: Tensorflow, PyTorch, OpenCV React, Node.js, Flask, LaTeX