Vasisht Kartik

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EDUCATION

University of California, Irvine – Bren School of Information and Computer Sciences **Expected Graduation: June 2028**
Bachelor of Science in Computer Science and Engineering | Minor in Economics **GPA: 4.0/4.0**

- **Organizations:** 180 Degrees Consulting (Tech Consultant), AI @ UCI
- **Related coursework:** Computer Systems and C Programming, Python Programming/Libraries, Boolean Logic and Discrete Structures, Classical Physics

SKILLS

Languages: Python, Java, C, C++, Swift, SQL, Assembly, R
Frameworks/Libraries: PyTorch, TensorFlow, Scikit-learn, OpenCV, Pandas, SwiftUI, JUnit
Tools: Git, Linux, MySQL, GitHub, XCode
Interests: Software Engineering, Product and Systems Engineering, Machine Learning, Artificial Intelligence, Data Science and Engineering, Mobile App Development, Entrepreneurship, Financial Technologies, Full-Stack Development

PROFESSIONAL EXPERIENCE

IEEE MIT URTC **June 2023 - October 2024**
Deep Learning Researcher *Boston, MA*

- Presented a deep learning research paper at the **2024 IEEE MIT Undergraduate Research Tech Conference** (Engineering track)
- Built a computer vision pipeline to analyze basketball shot trajectories using **OpenCV, TensorFlow, and OpenPose**
- Developed **2 novel Python curve-fitting mechanisms** to extract release angle and shot trajectory over 100+ videos
- Created a hyper-personalized feedback system to optimize basketball shooting angles for **15 players on the team**

QuickAlert **March 2024 - June 2025**
iOS Application Developer *San Jose, CA*

- Developed a **SwiftUI-based mobile app** that sends intelligent reminders to help students manage assignments and test prep
- Personalized push notifications based on student workload and deadlines corresponding to school's bell schedule
- Sponsored by the school's AP Comp Sci A teacher and the Fremont Union High School District's Technology Coordinator for **integration in the Fremont school district**

Stanford University **June 2024 - August 2024**
Data Science Student and Researcher *Palo Alto, CA*

- Built **6 Python pipelines** for regression/classification ML models to uncover insights from large historical datasets
- Applied core Python ML libraries and techniques, including **Sci-kit, Pytorch, natural language processing, and cross-validation** for weekly datasets
- Developed an **ensemble ML model** to predict domestic box-office success for film-production companies as a capstone project

Distributive Education Clubs of America (DECA) **August 2021 - June 2025**
Co-President *San Jose, CA*

- Directed **200+** members for career-development business competitions as the largest student-run club on campus
- Spearheaded the implementation of a **business analytics curriculum** for 2025 theme of AI-based projects and business plans
- Facilitated weekly case study sessions that enhanced member readiness for Wharton and Blue Ocean events
- Organized 2 mock conferences, 2 speaker events, 4 club recruitment events, and 7 chapter socials

PROJECTS

Distributive Education Clubs of America (DECA) **August 2022 - June 2025**
Operations Researcher *Saratoga, CA*

- Streamlined a plan for new digital and **AI services** to be implemented in the 49ers Fit gym to enhance operational efficiency as part of the Sports and Entertainment Operations Research event
- Created a **3-year financial projection** for newly implemented services and placed **6th internationally at the 2023 DECA International Career Development Conference** over 250+ competitors

California Synopsys Science Fair **August 2022 - August 2023**
Vagus Nerve Stimulation Machine Learning Research *San Jose, CA*

- Analyzed a government case study on rats using R programming to **quantify the effects of electric impulse stimulation on the brain**
- Developed an **ML algorithm** that determined the optimal range for tone frequencies with **98% accuracy**
- Presented findings under a panel of judges at **California's Synopsys Science Fair** under the machine-learning track