

# SHREYANK KADADI

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## PROFESSIONAL

<b>Qualcomm</b>	<b>San Diego, CA</b>
<i>Software Engineering Intern (ML Applications)</i>	<i>Jun 2022 – Sep 2022</i>
<ul style="list-style-type: none"><li>Worked with the automotive team to develop and deploy end-to-end autonomous driving pipelines utilizing C++ and Python</li><li>Developed enhanced validation framework for Inferno object detection API and improved validation efficiency by over 50%</li></ul>	
<b>Neural Dynamics Group @ UCLA</b>	<b>Westwood, CA</b>
<i>Software Lead</i>	<i>Sep 2021 – Present</i>
<ul style="list-style-type: none"><li>Designed and optimized Python backend for Functional Interactomes Score calculator, increasing research efficiency by 75%</li><li>Used Pandas and Numpy libraries to wrangle, analyze, and synthesize large proteomic linkage datasets (10k – 50k+ records)</li><li>Utilized SQL relational databases and Django to create a publicly accessible portal of vital neural protein-protein interactions</li></ul>	
<b>San Diego Supercomputer Center</b>	<b>San Diego, CA</b>
<i>Computational Research Intern</i>	<i>Jun 2019 – Aug 2019</i>
<ul style="list-style-type: none"><li>Adapted K-nearest neighbors classification algorithm to detect a set of 23 biomarkers with strong correlation to breast cancer</li><li>Project won \$2000 STEM Research award from the Armed Forces Communications and Electronics Association (AFCEA)</li></ul>	

## LEADERSHIP AND ACTIVITIES

<b>AI and Eye</b>	<b>Westwood, CA</b>
<i>Vice President/Artificial Intelligence Lead</i>	<i>Dec 2021 – Present</i>
<ul style="list-style-type: none"><li>Employing convolutional neural networks (CNNs) on rear-eye and retinal OCT images to preemptively detect optical diseases</li><li>Developing a mobile application to help diagnose glaucoma in patients residing in underprivileged villages in South India</li></ul>	
<b>National Student Data Corps @ UCLA</b>	<b>Westwood, CA</b>
<i>Founder &amp; President</i>	<i>Jun 2022 – Present</i>
<ul style="list-style-type: none"><li>Leading weekly data science/ML workshops covering topics such as computer vision, NLP, and neural network optimization</li></ul>	

## EDUCATION

<b>University of California, Los Angeles</b>	<b>Westwood, CA</b>
<i>B.S. in Biological Data Science (CaSB)</i>	<i>Aug 2020 – Jun 2023</i>
<ul style="list-style-type: none"><li><b>Academics:</b> Cumulative GPA 3.9/4.0, SAT 1570/1600 – Math 800, English 770</li><li><b>Awards:</b> UCLA DataFest Finalist (Top 5%), 2020 AIME Qualifier (Top 5% in US), 2<sup>nd</sup> Place Special Round Stanford ProCo</li><li><b>Certificates:</b> Machine Learning (Stanford), Python for Data Science (Dataquest), Data Scientist's Toolbox (Johns Hopkins)</li><li><b>Skills:</b> C++, Shell, Python, SQL, GoogleTest, R, PyTorch, TensorFlow, Django, Microsoft Excel, Git, AWS Sagemaker</li></ul>	

## SELECTED PROJECTS

<b>Glaucoma Diagnostic Tool via Retinal Nerve Fiber Layer (RNFL) Analysis</b>
<ul style="list-style-type: none"><li>Leveraged ResNet50 architecture on RNFL thickness maps to train a CNN that diagnosed glaucoma with 89.6% sensitivity</li></ul>
<b>Analysis of Fire Frequency Patterns on Sensitivity of Bird Arrival</b>
<ul style="list-style-type: none"><li>Used Pandas &amp; NumPy libraries to explicate a correlation between fire frequency and species-level variation in bird migration</li></ul>
<b>Pneumonia Diagnosis via Logistic Regression</b>
<ul style="list-style-type: none"><li>Applied TensorFlow on a set of chest x-rays to train a neural network that diagnosed pneumonia with 93.51% sensitivity</li></ul>