

# Mudit Arora

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## EDUCATION

<b>Master of Science, Natural Language Processing</b> University of California, Santa Cruz	Jun 2026 Santa Clara, CA
<b>Bachelor of Science, Computer Science</b> Arizona State University	May 2024 Tempe, AZ
<ul style="list-style-type: none"><li>Dean's List &amp; New American University Scholar</li><li>Magna Cum Laude holder (GPA: 3.77)</li><li>SUN Award holder (demonstrating leadership, supporting students' success)</li><li><b>Relevant Courses:</b> Foundations of Machine Learning, Intro to Artificial Intelligence, Algorithms in Computational Biology, Data in R &amp; Python, Data Structures &amp; Algorithms, iOS Mobile App Development, Software Engineering Methodologies, Database Management, Operating Systems</li></ul>	Fall 2020 – Spring 2024 Fall 2022 – Spring 2024

## WORK EXPERIENCE

<b>Subject Area Tutor</b> Academic Support Network, Arizona State University	Feb 2022 – May 2024 Tempe, AZ
<ul style="list-style-type: none"><li>Fostered academic excellence for 20+ students on a weekly basis to enhance their study plans.</li><li>Mentored and facilitated for high-level courses including Math, Chemistry, Statistics, and Programming (C++, Python, MATLAB, Java), leading to an average performance boost of 36% and enhanced understanding in these subjects.</li></ul>	
<b>Software Quality Assurance Analyst Intern</b> Knight Transportation	May 2022 – Aug 2022 Phoenix, AZ
<ul style="list-style-type: none"><li>Innovatively implemented an agile approach, authoring detailed test cases and effectively resolving critical bugs via <u>Microsoft Azure DevOps</u> and <u>Elasticsearch</u>; optimized development processes, resulting in a 28% reduction in bug resolution time.</li><li>Orchestrated a collaborative effort with Backend Engineers to optimize User Experience, resulting in a 42% increase in app engagement metrics and a 23% decrease in user complaints.</li></ul>	
<b>Undergraduate Teaching Assistant – Principles of Programming</b> Ira A. Fulton Schools of Engineering, Arizona State University	Aug 2021 – May 2022 Tempe, AZ
<ul style="list-style-type: none"><li>Empowered 70+ students weekly (over 300 students in total) in comprehending and instructing Java Programming concepts during lab sessions.</li><li>Conducted interactive weekly office hours, boosting student success and engagement by 41%, and promoted accessibility for 100+ students to encourage peer support and knowledge sharing.</li></ul>	

## PROJECTS

<b>Mayo Clinic – Generate LLM for Repurposing Clinical Notes – Capstone Project</b>
<ul style="list-style-type: none"><li>Used <u>Python</u>, <u>T5 Model</u>, <u>PyTorch</u>, <u>scikit-learn</u>, <u>Pandas</u>, <u>NumPy</u>, <u>Matplotlib</u> in the development of the Large Language Model.</li><li>Pioneered the extraction of social determinants of health from clinical notes by achieving an accuracy of 87%, and predicting readmission of patients within 30 days of discharge.</li></ul>
<b>Diabetes &amp; Heart Disease Analysis – Data Science Project</b>
<ul style="list-style-type: none"><li>Utilized <u>Python</u>, and <u>R</u> by applying advanced machine learning algorithms to extract actionable insights from healthcare data, enhancing decision-making processes and contributing to a 32% improvement in patient care outcomes.</li><li>Employed Logistic Regression and K-Nearest Neighbors (KNN) Classification to identify key contributing factors with 65% and 71% accuracy rate respectively.</li></ul>
<b>ParkPal – iOS App Development Project</b>
<ul style="list-style-type: none"><li>Used <u>Swift</u> and <u>SwiftUI</u> for Model-View-Controller (MVC) architecture by developing an iOS app that helps you find nearby parking spots in a city with basic details and directions to that parking spot with <u>CoreData</u> integration to save favorite locations.</li><li>Leveraged Google Cloud's API to get the coordinates, and details of the parking spot, enhancing user experience by 43%.</li></ul>
<b>Photo Share – Database Project</b>
<ul style="list-style-type: none"><li>Developed an Instagram-based web application using <u>HTML</u>, <u>CSS</u>, <u>JavaScript</u>, <u>Node.js</u>, and <u>SQL</u> that consist of a Login/Signup page, Album page, Explore page, Photos page, and Profile.</li><li>Empowered users with the ability to upload pictures, engage with content by liking and commenting on both images and comments, curate their collections by adding photos to albums, and easily discover content through precise keyword-based search functionality, resulting in 56% increase in user engagement.</li></ul>

## EXTRACURRICULAR ACTIVITIES

<b>Vice President, Google Developer Student Club</b>	Jan 2023 – May 2024
<ul style="list-style-type: none"><li>Boosted training quality and industry-relevant skills through expert-led instructional material enhancements and technical workshops, overseeing club operations. Expanded the club to 1500+ ASU members and increased visibility on various social media platforms.</li></ul>	
<b>Public Relations Officer, Sun Devil Birdies</b>	May 2021 – May 2022
<ul style="list-style-type: none"><li>Managed the club's social media, boosting outreach and badminton awareness among university students, leading to a 33% increase in club membership and engagement.</li></ul>	

## SKILLS

**Languages/Technologies:** Python, Swift, HTML, CSS, JavaScript, R Programming, C++, Java, Git, MySQL  
**Frameworks/Libraries:** Pandas, NumPy, Matplotlib, scikit-learn, PyTorch, TensorFlow, Keras, Django, Flask, SwiftUI, UIKit, Node.js, jQuery, React