

# Mudit Arora

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## SUMMARY

Motivated Master's student in Natural Language Processing with a strong foundation software development, web development, app development, machine learning, and data analysis. Proficient in Python, C++, Swift, and web technologies, with hands-on experience in building real-world applications. Passionate about solving complex problems through innovative algorithms and data-driven solutions.

## SKILLS

**Languages:** Python, Swift, HTML/CSS, JavaScript, R programming, C++, Java, MATLAB, MySQL

**Frameworks/Technologies:** Pandas, NumPy, Matplotlib, scikit-learn, PyTorch, TensorFlow, Keras, Django, Flask, SwiftUI, UIKit, Node.js, React.js, Node.js, Git

## WORK EXPERIENCE

**Subject Area Tutor** Feb 2022 – May 2024  
Academic Support Network, Arizona State University Tempe, AZ

- Fostered academic excellence for **20+ students** on a **weekly basis** to enhance their study plans.
- 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.

**Software Quality Assurance Analyst Intern** May 2022 – Aug 2022  
Knight Transportation Phoenix, AZ

- Innovatively implemented an agile approach, authoring detailed test cases and effectively resolving critical bugs via **Microsoft Azure DevOps** and **Elasticsearch**; optimized development processes, resulting in a **28% reduction in bug resolution** time.
- 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**.

**Undergraduate Teaching Assistant – Principles of Programming** Aug 2021 – May 2022  
Ira A. Fulton Schools of Engineering, Arizona State University Tempe, AZ

- Empowered **70+ students weekly** (300+ in total) in comprehending **Java programming** concepts during lab sessions, while conducting interactive office hours that boosted student success and **engagement by 41%**, promoting accessibility and peer **support for over 100 students**.

## PROJECTS

**Mayo Clinic – Generate LLM for Repurposing Clinical Notes – Capstone Project**

- Engineered a Large Language Model using **Python, T5, PyTorch, scikit-learn, Numpy, Matplotlib** and **Pandas**, achieving **87% accuracy** in extracting social determinants of health from clinical notes and predicting patient readmission within 30 days.

**Diabetes & Heart Disease Analysis – Data Science Project**

- Applied advanced machine learning algorithms in **Python** and **R** to analyze healthcare data, improving patient care outcomes by 32%, with Logistic Regression and KNN achieving **65% and 71% accuracy**, respectively.

**ParkPal – iOS App Development Project**

- Utilized **Swift** and **SwiftUI** for **MVC architecture** to build an iOS app that locates nearby parking spots with directions and **CoreData** integration for saving favorite parking spots, leveraging **Google Cloud's API** to enhance user experience by **43%**.

**Photo Share – Database Project**

- Developed an Instagram-based web application using **HTML, CSS, JavaScript, Node.js**, and **SQL**, featuring Login/Signup, Album, Explore, Photos, and Profile pages. Enabled users to upload pictures, like and comment on images and comments, create albums, and discover content via keyword-based search. Integrated a seamless user experience, **boosting engagement by 56%** through improved interactivity and content discovery.

## EXTRACURRICULAR ACTIVITIES

**Vice President, Google Developer Student Club** Jan 2023 – May 2024

- Enhanced training quality and industry-relevant skills through instructional material improvements and technical workshops, overseeing club operations. **Grew the club to 1500+ ASU members** and increased social media visibility.

## EDUCATION

**Master of Science, Natural Language Processing** Jun 2026  
University of California, Santa Cruz Santa Clara, CA

- Relevant Courses:** Deep Learning for NLP, Data Science & Machine Learning, Intro to NLP

**Bachelor of Science, Computer Science** May 2024  
Arizona State University Tempe, AZ

- Dean's List holder & New American University Scholar Fall 2020 – Spring 2024
- Magna Cum Laude holder (GPA: 3.77)
- SUN Award holder (demonstrating leadership, supporting students' success) Fall 2022 – Spring 2024
- Relevant Courses:** Foundations of ML, Intro to AI, Algorithms in Computational Biology, Data in R & Python, Data Structures & Algorithms, iOS Mobile App Development, Software Engineering Methodologies, Database Management, Operating Systems