Rohan Kshatriya

480-465-7640 • rkshatri@asu.edu • linkedin.com/in/rohan-kshatriya • app.joinhandshake.com/profiles/neh3sg

SUMMARY

Computer Science student with internship experience in natural-language processing, object-oriented programming, and presenting, seeking internship opportunities in summer 2025.

EDUCATION

B.S. in Computer Science
Minor in Computational Life Sciences Expected May 2028
Arizona State University, Tempe, AZ 4.00 GPA

TECHNICAL SKILLS

Programming Languages: Python, Java, Matlab
Tools, Databases, and OS: Speech-to-text APIs, librosa, scikit-learn, VSCode, macOS, Windows

PROFESSIONAL EXPERIENCE

Mass General Brigham, Boston, MA: Software Engineering Intern 02/2024 - 05/2024

- Developed a speech-to-text based system in **Python** to rate the severity of symptoms in patients with voice disorders
- Used Natural Language Processing APIs and Bayesian algorithms to optimize a solution that accommodated tremors, breaks, and breathiness in the patients' speech
- Visualized data on spectrograms using Python libraries like **librosa** and **matplotlib**
- Improved accuracy of correctly detected sentences from 50% to 98%.
- Presented the final project to the Dystonia and Speech Motor Control Lab at Harvard Medical School

RELEVANT PROJECTS

Project Spyn (Maze-Solving Robotic Car), *Class Project* Spring 2024

- Engineered a self-driving LEGO robotic car that picked up a passenger, navigated a maze, and dropped them off in a specified location
- Utilized **Matlab** and LEGO EV3 architecture to work through the maze logic

Future Solutions: Advanced Immersion Cooling System, *Class Project* Fall 2024

- Designed an advanced immersion cooling system to cut down on water and energy usage in data centers
- Conducted research on enabling technologies and cost-benefit analysis
- Solution involved a stainless steel tank filled with a fluid that allows heat to be transferred out of the servers while not damaging any electronics inside
- Presented at a poster session for the Grand Challenge Scholars community.

DNA Detectives, *Personal Project* Summer 2022

- Developed a Machine Learning model to predict the country of origin for SARS-CoV-2 samples based on DNA sequences
- Extracted mutation-based features, balanced datasets, and implemented a logistic regression model using **scikit-learn** in **Python**
- Achieved 92% accuracy in classifying samples into Asia, North America, or Oceania.

WORK EXPERIENCE

BASIS Phoenix: High School Teaching Assistant, Honors and AP Biology 08/2023 - 5/2024

- Assisted 150 high school students in lectures, office hours, and grading exams

EXTRACURRICULAR EXPERIENCE

Grand Challenge Scholars Program, Arizona State University 08/2024 - Current

- Collaborated on projects addressing global challenges and discussed themes related to sustainability, security, health, and joy of living

Competitive Co-Ed Bolly-Fusion Dance Team, ASU Aalishaan 08/2024 - Current

- Traveled across the nation to compete against other universities in a dance style that combines traditional Indian dance forms with contemporary Western styles