Shrish Choudhary

150 Melendez Ave | 510-509-0820 | Shrishc@mit.edu | shrish-choudhary.onrender.com

Education

Massachusetts Institute of Technology, Cambridge, MA   August 2023-May 2027
Bachelor of Science
Coursework: Intro to Programming, Discrete Math, Intro to Algorithms, Fundamentals of Programming

Mission San Jose High School, Fremont, CA   August 2019-June 2023
GPA: 4.45
Coursework: Discrete Math: A, Multivariable Calculus: A, Linear Algebra: A, AP Computer Science: A

Experience

Machine Learning on Android Phones, Cambridge, MA   November 2023-Present
Student Researcher
- Tuned and tested an Android app that utilized TensorFlow to analyze surgical wounds and determine infection.
- Used in rural Rwandan villages to decrease need for long trips to hospitals.

Projects

Robotics   2019-2023
- Mask Enforcer Turret
  - Custom-designed and 3-D printed projectile firing mechanism that incorporated a custom trained mask detection model to detect and throw projectiles at maskless people.
- Tennis Roomba
  - Designed and machined a robot that utilized PID controls and odometry for spline paths along with a trained model using TensorFlow to detect and collect balls on a tennis court.

Tennis Shot Detection Model   2023-2024
- Created a multiclass detection model using PyTorch and a custom collected dataset. Leveraged transfer learning to create a model to analyze professionals and find patterns in shot-selection.

Performance Tracker   2023-Present
- Created and deployed a Django app with a python web scraper to record and analyze different ranking systems to centralize data and find the most reflective system for different tennis players.

MIT Men's Varsity Tennis   August 2023-Present

Awards & Accomplishments

Eagle Scout of America   May 2020
- Planned, fundraised, and lead service project to create display cases for Natural History Museum

ACLU Volunteer   2021-2023
- Lead program to guide upcoming tennis juniors raising 4,000 dollars for the ACLU foundation.

Skills & Interests

Languages: Python, Java, C++, HTML, JS, CSS, REACT JS
Frameworks/Tools: PyTorch, Django, TensorFlow, Vuforia, OpenCV, Git, Fusion 360, Blender