Shrish Choudhary

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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.

Mission Hills Racket and Swim Club, Fremont CA August 2021- August 2023
Coach & Head Photographer

- Initiated outreach through drone photography and revitalized website.

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.

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: PyTorch, TensorFlow, Vuforia, OpenCV, Git, Fusion 360, Blender, Adobe Photoshop