

Shrish Choudhary

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Education

Massachusetts Institute of Technology, Cambridge, MA **Expected Graduation, May 2027**

- BA in Computer Science
- **Related Coursework:** Intro to Programming, Discrete Math, Intro to Algorithms, Fundamentals of Programming

Mission San Jose High School, Fremont, CA **August 2019-June 2023**

- **Related Coursework:** Discrete Math: A, Multivariable Calculus: A, Linear Algebra: A, AP Computer Science: A

Experience

MIT Edgerton Center, Cambridge, MA **November 2023-Present**

Undergraduate Researcher

- Tuned and tested an Android app that utilized TensorFlow to analyze surgical wounds and determine infection locally using PyMed libraries in partnership with Harvard Medical School.

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.
- FIRST **2017-2023**
 - Founded and managed a regional-level robotics team while leading software sub team.

Tennis Shot Detection Model **Winter 2023**

- 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 an AWS-RDS PostgreSQL database and a python web scraper to record and analyze different tennis ranking systems to find the most reflective system.

Awards & Accomplishments

Eagle Scout of America **May 2020**

- Planned, fundraised, and lead service project to create display cases for Natural History Museum

MIT Men's Varsity Tennis **August 2023-Present**

Skills & Interests

Languages: Python, Java, C++, HTML, JS, CSS, REACT JS, SQL

Frameworks/Tools: PyTorch, Django, TensorFlow, Vuforia, OpenCV, PostgreSQL, AWS, Git