

# 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.

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

**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, SQL

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