Shrish Choudhary

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Education

Massachusetts Institute of Technology, Cambridge, MA   **Expected Graduation, May 2027**
- GPA: **4.8**/5.0
- BS in Computer Science and Artificial Intelligence, Minor in Business
- **Related Coursework**: Intro to Algorithms, Fundamentals of Programming, Design and Analysis of Algorithms, Intro to Machine Learning, Corporate Financial Accounting

Experience

Theoretical Physics Lab, Cambridge, MA   **June 2024-Present**
Undergraduate Researcher
- Optimized optical layout process, reducing time from weeks to hours
- Achieved a 0.1 mm translational and 0.1° rotational accuracy (Demo)
- Implemented deep learning, 6d pose estimation and mechanics to map movement

MIT Edgerton Center, Cambridge, MA   **November 2023-May 2024**
Undergraduate Researcher
- Enhanced model to achieve 80~90% accuracy hosted locally on mobile devices
- Leveraged PyMed and collaboration with Harvard Medical School

Projects

Performance Tracker   **January 2023- June 2024**
- Created and deployed Django app with AWS-RDS PostgreSQL database
- Accurately predicted 75% results for matches

Tennis Shot Detection Model   **January 2023 – June 2023**
- Utilized transfer learning to create 90% accurate shot detection model
- Comparable performance to Swing Vision app used by over 15,000

Mask Enforcer Turret   **March 2019-March 2020**
- Trained mask detection model using transfer learning with 98% accuracy
- Designed mechanism to implement kinematics for accurate launching

Tennis Roomba   **February 2020-March 2021**
- Invented aluminum modular robot with 360-degree movement
- Combined PID controls and ball detection model to navigate spline paths and collect balls

Awards & Accomplishments

- **AWS Cloud Practitioner Certificate**   **February 2024**
- **MIT Men's Varsity Tennis**   **August 2023-Present**
- **Eagle Scout of America**   **May 2020**

Skills

Languages: Python, Java, C++, HTML, JS, CSS, REACT JS, SQL
Frameworks/Tools: PyTorch, Django, TensorFlow, Vuforia, OpenCV, PostgreSQL, AWS, Git, Android