Shrish Choudhary

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Education

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

- BS in **Computer Science** and **Management**
- GPA: **4.7**/5.0
- *Related Coursework*: Robotic Manipulation, Design and Analysis of Algorithms, Machine Learning, Software Construction, Computer Systems, Computer Vision, Computation Structures

Experience

Improbable AI Lab, Cambridge, MA **August 2025 – Present**
Undergraduate Researcher

- Isaac lab simulation-based learning to teach robotic hands to understand shapes of objects through tactile sensors
- Expanded research into latent understanding with VAEs and diffusion models

eBay, San Jose, CA **May 2025 – August 2025**
Machine Learning Intern

- Leveraged XGB and deep learning architectures to personalize checkout flows for billions of users
- Deployed **first ML pipeline to production** in payments, boosting checkout conversion by **22%**

Theoretical Physics Lab, Cambridge, MA **June 2024 – June 2025**
Undergraduate Researcher – Head Engineer

- **2nd author** on publication**, secured** patent for $2B addressable market
- Implemented stereo vision system with LiDAR 6D pose estimation and RL policy for navigation

MIT Edgerton Center, Cambridge, MA **November 2023 – May 2024**
Undergraduate Researcher

- Adapted model to run locally using *TensorFlow lite* with an 85% accuracy
- Partnered with **Harvard Medical School** to deploy to rural villages

Projects

YC IAP Program Grant **December 2025 – January 2026**

- Created 2d to 3d pipeline from listing to model for online shopping: Mirim
- Trained on-device models using distillation and Yolo for proactive safety: Skeye

Smartform **January 2025 – August 2025**

- Developed **AI-powered analytics app** using visual ML models to deliver **medically validated** feedback
- Adopted by **200+ users**; received accelerator funding

Tennis Roomba **February 2024 – January 2025**

- **Invented** robot with 360-degree movement to autonomously collect tennis balls
- **Combined** *PID* controls and on-device object recognition models to navigate courts

Awards & Accomplishments

- **YC IAP Program Grant Recipient** **December 2025**
- **Second Author - *Science* & CLEO Publications** **May 2025**
- **Autonomous Optical Assembly Patent Holder** **January 2025**
- **Eagle Scout** **May 2020**

Skills

- **Languages:** Python, C++, C, Java, Verilog, Assembly, SQL, Swift, Julia
- **Frameworks/Platforms:** PyTorch, TF, OpenCV, Isaac Sim, Isaac Gym, Drake, Git, Unity, PostgreSQL, AWS