Prince Patel

princep@mit.edu | linkedin/in/princegpatel | ppatel22.github.io

EDUCATION:

- **Massachusetts Institute of Technology** *Expected 2025*
- BS, Computer Science and Artificial Intelligence with a Minor in Neuroscience
- Current GPA: 4.8, ACT: 36
- Current Coursework: Fundamentals of Statistics, Design and Analysis of Algorithms, Intro to ML
- Relevant Courses: Intro to Algorithms, Probability and Random Variables, Linear Algebra, Fundamentals of Programming, Intro to C and Low-level Programming, Multivariable Calculus

WORK EXPERIENCE:

Epicore Biosystems *June 2023 – Current*
Data Scientist
- Developed methods to analyze data for a smart sweat sensing device that informs hydration
- Created test procedures and research reports detailing algorithm testing for bench and on-body field trials
- Supported testing of Gx Sweat Patch image processing algorithms

RESEARCH EXPERIENCE:

Biomechatronic Group, MIT Media Lab *Mar. 2023 – Current*
Undergraduate Researcher
- Attempting to predict intentions of upper extremity amputees and translating to prostheses control.
- Spearheaded efforts to improve the quality of training data for a machine learning algorithm utilized to forecast movement based on EMG readings.
- Implemented computer vision assisted hand tracking as an additional layer of training data validation, thereby reducing the cognitive load on patients during data collection.

Marine Robotics Lab, MIT CSAIL *Dec. 2022 – Apr. 2023*
Undergraduate Researcher
- Trained a goalie and locomotion policy for a quadruped and bipedal robot in Isaac Gym using a Proximal Policy Optimization reinforcement learning program
- Accessed the robot's onboard computers, cameras, and LiDAR sensors to implement a reinforcement policy that incorporates computer vision

EXTRACURRICULAR EXPERIENCE:

MIT 2026 Class Council *Mar. 2023 – Current*
Vice President
- Represented the voice of 1300+ students in the class of 2026 within school administration
- Organized activities to promote class unity and create a welcoming environment for all

MIT Capital Partners *Mar. 2023 – Current*
Analyst
- Completed in-depth reports of industries and startups for VC clients
- Contacted emerging startups and established channels of communication between them and VC clients

MIT South Asian Association of Students *Sep. 2022 – Current*
Big Events Committee
- Organized and hosted large-scale cultural celebrations for students at MIT and Boston-area colleges

SKILLS & INTERESTS:

- Python (PyTorch, pandas), C/C++, Science Communication, Project Management
- Brain-computer interfaces, autonomous machines, volleyball, weightlifting