

Prince Patel

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EDUCATION:

Massachusetts Institute of Technology

Expected 2025

BS, Computer Science and Artificial Intelligence with a Minor in Neuroscience, GPA: 4.8

- Relevant Coursework: Fundamentals of Statistics (18.650), Design and Analysis of Algorithms (6.1220/6.046), Intro to Machine Learning (6.036), Intro to Algorithms (6.1210/6.006), Probability and Random Variables (18.600), Linear Algebra (18.06), Intro to C and Low-level Programming (6.1900/6.0004)
- Organizations: South Asian Association of Students (Big Events Committee), Phi Kappa Theta (Risk Manager)

WORK EXPERIENCE:

Epicore Biosystems

June 2023 – Current

Data Scientist

- Deployed a RNN to predict sweat rate based on accelerometer and temperature data for hydration-tracking wearable, out-performing the previous algorithm by over 100%
- Created test procedures and research reports detailing algorithm testing for bench and on-body field trials

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
- 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

- Collaborated with campus organizations to forge partnerships, expanding the reach and impact of class-wide initiatives
- Orchestrated initiatives to foster class unity, promote inclusivity, and cultivate a welcoming environment for all students

MIT Capital Partners

Mar. 2023 – Current

Sourcing Principal

- Demonstrated expertise in analyzing industry trends, competitive landscapes, and growth potential of startups
- Employed strong communication skills to establish mutually beneficial partnerships with startups and VC clients

PROJECTS:

Xeek Optimization Contest

Current

- Developed and implemented a boosted graph neural network model to optimize the allocation of workers for maximizing profitability within defined constraints of time and budget

SKILLS & INTERESTS:

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