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), Signal Processing (6.3000/6.003) 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 LSTM model to predict sweat rate based on accelerometer and temperature data for hydration-tracking wearable, replacing the less accurate linear regression model
- Presented outcomes of implementing new predictive model to company executives and potential investors

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 cameras and LiDAR sensors to add data inputs to the existing RL policy

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:

Identifying Age-Related Conditions   *Current*

- Developed a gradient boosted decision tree model to accurately classify patients suffering from age-related health conditions using unlabelled health metrics

SKILLS & INTERESTS:

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