

# Prince Patel

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## EDUCATION:

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### Massachusetts Institute of Technology

*Expected 2025*

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

- Relevant Coursework: Fundamentals of Statistics (18.650), Deep Learning (6.S898), Intro to Machine Learning (6.036), Optimization Methods (6.7201), Differential Equations (18.03), 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:

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### Mach Industries

*Jan. 2024*

Incoming ML Engineering intern

- Developing and deploying lightweight computer vision models for UAVs deployed in remote locations
- Simulating and planning trajectory algorithms for VTOLs, optimizing their performance and efficiency

### Epicore Biosystems

*June 2023 – Sep. 2023*

Data Scientist

- Implemented a generalized linear model for forecasting sweat rate by leveraging accelerometer and temperature data, enhancing the accuracy of the hydration-tracking wearable compared to the previous hard-coded estimation algorithm
- Presented outcomes of implementing new predictive model to company executives and potential investors

## RESEARCH EXPERIENCE:

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### Biomechatronic Group, MIT Media Lab

*Mar. 2023 – Present*

Undergraduate Researcher

- Attempting to predict intentions of upper extremity amputees and translating to continuous prostheses control
- Implemented computer vision hand tracking for additional training data validation, reducing the load on patients

### Marine Robotics Lab, MIT CSAIL

*Dec. 2022 – Apr. 2023*

Undergraduate Researcher

- Trained a locomotion policy for a quadruped robot in Isaac Gym using a PPO reinforcement learning program
- Accessed the robot's onboard cameras and LiDAR sensors to add data inputs to the existing RL policy

## EXTRACURRICULAR EXPERIENCE:

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### MIT 2026 Class Council

*Mar. 2023 – Present*

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 – Present*

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:

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### Identifying Age-Related Conditions

*June 2023*

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

## SKILLS & INTERESTS:

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- Python (TensorFlow, PyTorch, Pandas, numpy), C, Science Communication, Project Management
- Brain-computer interfaces, autonomous machines, volleyball, weightlifting