

# SUBHASH C. KANTAMNENI

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## EDUCATION

### Massachusetts Institute of Technology (MIT)

2020 – 2024

*Candidate for SB in Physics, Computer Science and Electrical Engineering; GPA: 5.0/5.0*

Cambridge, MA

- **Activities & Societies:** MIT Consulting Group, Leadership Training Institute, Sloan Business Club
- **Courses:** 6.031 Software Design, 6.006 Algorithms, 6.08 Embedded Systems, 8.04/8.05 Quantum Physics I/II

### Suncoast Community High School

2016 – 2020

*Math, Science, and Engineering Program; GPA: 4.0/4.0*

Riviera Beach, Florida

- **Achievements:** Valedictorian, National Merit Finalist, National AP Scholar, Kovner Scholar (\$40,000)

## EXPERIENCE

### NASA Jet Propulsion Laboratory

Jun – Aug 2021

*Exoplanet Discovery Group Intern*

Pasadena, CA

- Automated verification and validation for the EXCALIBUR exoplanet atmospheric analysis pipeline using ML
- Explored classical machine learning and advanced data simulation techniques while writing production level code
- Deployed code as a permanent addition to the EXCALIBUR pipeline with results to be published

### MIT Center for Brains, Minds, and Machines

Oct 2020 – Jan 2021

*ARC Solving Group Member*

Cambridge, MA

- Created new Python primitives to achieve 20 of the group's 100 cumulative solves on ARC (the 'IQ test' for AIs)
- Ran cluster jobs frequently and was directly involved with the overall direction of the AI model

### MIT Kavli Institute for Astrophysics

Jun – Aug 2019

*Research Science Institute Scholar*

Cambridge, MA

- Recalculated theoretical stellar isochrones using Non-Local Thermodynamic Equilibrium (NLTE) conditions
- Worked at MIT's Kavli Institute for Astrophysics and was recognized as a top 10 oral presenter

## SELECTED PROJECTS

- **Visualization Tool for MIT Classes (Data Viz., Web Scraping)** Created an interactive online tool for users to visualize the dependencies of MIT classes using data scraped from MIT's course catalog. *Tech: Python (Plotly, iGraph, Beautiful Soup).* [Website Link](#).
- **Beating NBA Spreads with Machine Learning (Model Development, Feature Engineering)** Trained a LightGBM model to 70% accuracy on scraped NBA data and devised a highly profitable betting strategy based on model certainty. *Tech: LightGBM, Random Forests, Jupyter Notebook, Python (Scikit-Learn, Pandas, Beautiful Soup).* [GitHub Link](#).

## LEADERSHIP & EXTRACURRICULARS

### Global Teaching Labs - Korea

Jan 2022

*Teacher*

Seoul, South Korea

- Taught in Seoul to disadvantaged middle school students with limited English ability to inspire their interests in STEM
- Codeveloped Arduino projects to introduce programming and ideated engineering projects to illustrate physics concepts

### Leadership Training Institute

Sep 2020 – Present

*Leadership Mentor*

Cambridge, MA

- Mentored a group of 15 Boston public school students for 3 months in leadership and public speaking
- Designed weekly leadership exercises that kept students engaged while improving their communicative abilities

### MIT Consulting Group

Sep 2021 – Present

*Consultant*

Cambridge, MA

- Conducted market research and developed branding strategies to bolster a \$1B gaming company's app performance

## TECHNICAL SKILLS

<b>Typescript</b>	Well-trained in creating clean, maintainable code and industry style automated unit testing
<b>Python</b>	Utilized extensively for research projects, specifically the Matplotlib, Scikit-Learn, and NumPy libraries
<b>C</b>	Created Arduino projects including a self-driving vehicle and a web integrated light-sound alarm clock
<b>Other</b>	Experienced with Linux, command-line Git, L <sup>A</sup> T <sub>E</sub> X, Bash scripting, and submitting batch jobs