## Rajeev Atla

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#### **Programming**

Python

Java

C/C++

JavaScript

SQL Technologies

NumPy

PyTorch TensorFlow

Keras

Pandas

Scikit-learn

Git

Markup

LATEX

Asymptote

HTML

CSS Markdown

Tools

**Emacs** 

LITIACS

Ubuntu

## Education 2021 - 2025 Rutgers University — New Brunswick

- Majoring in Computer Engineering, Computer Science, & Statistics/Mathematics
- Minor in Data Science
- Dean's List Fall 2021
- Extracurriculars: Engineering Honors Academy, IEEE, Competitive Programming, Engineering Honors Council, Math Association, Quidditch

#### 2017 - 2021 John P. Stevens High School

- Scored a **35/36** on ACT
- Took 19 AP exams (National AP Scholar) and 8 honors classes
- ⊙ 5.56 Weighted GPA & 4.07 Unweighted GPA
- Extracurriculars: Science Bowl (President), Science League (President), Science Olympiad (President), Physics Club (President), Chemistry Club (President), Quiz Bowl, National Honor Society, Science National Honors Society, National Technical Honor Society, National English Honor Society, Mu Alpha Theta

#### 2020 - 2021 Columbia Science Honors Program

- Took Introduction to Algorithms and Graph Theory
- Selected as one of ~ 2000 applicants from the tri-state area (NJ, NY, CT)

# Projects 2020 - 2021 SuperconGAN

- Used PyTorch to construct and train a generative adversarial network (GAN) to analyze superconductivity data
- Withdrew data from UCI Machine Learning Repository using Pandas
- Published package on Python Package Index (PyPI) with 20,000+ downloads
- Wrote unit tests using Pytest, achieving 80% test coverage
- GitHub Repository: https://github.com/RajeevAtla/SuperconGAN

#### 2019 - 2021 rajeevatla.com

- Used Jekyll and GitHub Pages to publish personal website
- Blogged on various technical subjects including physics and math

#### Aug. 2020 Sentiment Classification on IMDb Movie Reviews

- Lead a team of **5** in using Sklearn and Pandas to construct an F1-based model to classify movie reviews as positive or negative
- Achieved 90.5% accuracy using linear bigram tf-idf

#### May 2021 Cityscape

- Designed mobile app to give iconic tours of areas along with 4 team members
- Wrote controllers and models for MongoDB using Mongoose ORM
- Utilized Flutter for frontend and Express.js and MongoDB for backend
- Placed 2nd at HackExeter 2021

## **Q** Awards

### March 2020 US Physics Olympiad Qualifier

- **\odot** Placed in **top 400** out of **5,000+** on F=ma exam, based on knowledge of calculus-based mechanics and physical intuition
- https://www.aapt.org/physicsteam/2020/upload/2020-USAPhO-Qualifiers\_v3.pdf

#### 2019, 2021 NJIT Chemistry Olympics

- Utilized knowledge of organic and inorganic chemical nomenclature, as well as general chemistry knowledge
- Lead nomenclature team to 3rd place in 2021 and 4th place in 2019
- Lead demonstration show team to 4th place in 2019
- Selected to represent high school out of **200+** applicants