Rajeev Atla

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⌨️ Programming
- 🐍 Python
- ☕ Java
- JS JavaScript
- 🛢️ SQL

💻 Technologies
- 🧊 NumPy
- 🔥 PyTorch
- 📊 Pandas
- 🍊 Scikit-learn
- ◆ Git

✍️ Markup
- 🐦 LaTeX
- 〰 Asymptote
- 5 HTML
- 3 CSS
- M↓ Markdown

🛠️ Tools
- ∑ Emacs
- ⬤ Ubuntu
- 🪟 Windows

🎓 Education

Rutgers University — New Brunswick
2021 – 2025
- ✴ Triple major in Computer Engineering, Computer Science, and Statistics/Mathematics
- ✴ Minor in Data Science
- ✴ Potential Minor in Operations Research
- ✴ Potential Certificates in Quantitative Economics or Computational Economics
- ✴ Extracurriculars: Engineering Honors Academy, IEEE, Quantitative Finance Club, Competitive Programming Club, Engineering Honors Council, Alliance of Computer Scientists, Math Association, Statistics Club, Quidditch

John P. Stevens High School
2017 – 2021
- ✴ 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

Columbia Science Honors Program
2020 – 2021
- ✴ Took *Introduction to Algorithms* and *Graph Theory*
- ✴ Selected as one of **~2000** applicants from the tri-state area (NJ, NY, CT)

🕸 Projects

SuperconGAN: Superconductivity and GANs
2020 – 2021
- ✴ 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 PyPI with **20,000+ downloads**
- ✴ Wrote unit tests using Pytest
- ✴ GitHub Repository: `https://github.com/RajeevAtla/SuperconGAN`

rajeevatla.com
2019 – 2021
- ✴ Used Jekyll and GitHub Pages to publish personal website
- ✴ Blogged on various technical subjects including physics and math

Sentiment Classification on IMDb Movie Reviews
Aug. 2020
- ✴ 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

Travel App
May 2021
- ✴ 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

🏅 Awards

US Physics Olympiad Qualifier
March 2020
- ✴ Placed in **top 400** out of **5,000+** on F=ma exam, based on knowledge of calculus-based mechanics and physical intuition
- ✴ Final exam cancelled due to COVID-19
- ✴ `https://www.aapt.org/physicsteam/2020/upload/2020-USAPhO-Qualifiers_v3.pdf`

NJIT Chemistry Olympics
2019, 2021
- ✴ 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** (2020 canceled due to COVID-19)
- ✴ Lead demonstration show team to **4th place in 2019**
- ✴ Selected to represent high school out of **200+** applicants