

# Siddhant Dubey

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## EDUCATION

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### Georgia Institute of Technology

*BS, Computer Science*

Atlanta, GA

*Aug. 2021 – Present*

### North Carolina School of Science and Math

*High School; GPA: 4.86; Classes: Multivariable Calculus, Java, Advanced Java, Data Science*

Durham, NC

*Aug. 2019 – May 2021*

## PROFESSIONAL EXPERIENCE

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### North Carolina School of Science and Math

*Ryden AI Program Teaching Assistant*

Durham, NC

*Aug. 2020 – May 2021*

- **Hackathon Organizing:** Lead planning and logistics for a Hackathon catering to 70+ high schoolers from the state of North Carolina
- **Machine Learning:** Developed interactive projects using PyTorch to demonstrate AI for social good
- **Curriculum Design:** Developed Machine Learning curriculum for a wide variety of students and taught it to over 30 students

### UNC Chapel Hill

*Research Intern*

Chapel Hill, NC

*June 2020 – Aug. 2020*

- **Natural Language Processing:** Worked with PyTorch to construct a Long Short Term Memory Network to classify movie dialogue as delivered by a male or female character
- **Research Paper:** Wrote formal research paper summarizing the project and key findings
- **Matplotlib, Numpy, and Pandas:** Converted large datasets into insightful visualizations in order to understand the problem
- **spaCy and NLTK:** Used NLP libraries in Python to extract parts of speech and do sentiment analysis on the Cornell Movie Dialogs Corpus

## COMPETITIONS AND PERSONAL PROJECTS

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### Samsung Solve for Tomorrow Competition | *Python, TensorFlow, Flutter, Dart, Git*

Nov. 2020 – May 2021

- Won national competition as Machine Learning lead for my school's team
- Utilized Object Detection algorithm (YoloV3) to classify waste in the form of an app to make it easier for students on our campus to recycle
- Built a cross-platform mobile app using Flutter and Dart that incorporated the tflite object detection algorithm mentioned above

### Implied Volatility Modeling | *PyTorch, Python, Git*

January 2020

- Implemented machine learning and deep learning models to predict the implied volatility of options contracts
- Collaborated with others in a team environment utilizing Git and GitHub
- Conducted research into various volatility modeling techniques like SABR

## TECHNICAL SKILLS AND AWARDS

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**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Ruby, Dart, Go, Rust, PHP

**Frameworks:** React, Flask, Django, PyTorch, TensorFlow, Flutter

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Firebase

**Libraries:** pandas, NumPy, Matplotlib, NLTK, spaCy

**Awards:** United States of America Computing Olympiad (USACO) Platinum Division, AIME Qualifier