

# Adyanth Ganesh

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## Education

### WW-P High School North

September 2021 - Present

GPA (W): 4.58/4.0

### Mercer County Community College

A.S. in Mathematics

June 2023 - Present

GPA: 4.0/4.0

### Massachusetts Institute of Technology

Data Science and Machine Learning

October 2022 - March 2023

GPA: 582/600

### Relevant Coursework:

Computational Cognitive Science, Psychology, Linguistics, Logic, Advanced Algorithm Development, Linear Algebra, Calculus III, Differential Equations

### External Courses & Certifications

Google, Purdue, Coursera

## Skills

**Languages:** C++, Python, Java, Javascript, Pinescript, R, EasyLanguage, OCaml

**Frameworks:** AWS, Flask, Node.js, React, Django, SQL, Pandas, Numpy, MATLAB, TensorFlow, PyTorch

**Software Tools:** Tableau, Power BI, SciPy

## Apps Developed

↳ [Titi - AI Mental Health App - 1500+ users aided](#)

↳ MapMatch - Exploration App (Retired)

## Leadership & Activities:

Township Human Relations Council

WW-P POC Advocacy

[Free International Tutoring](#)

Freelance Website Creation

## Awards & Honors

16th in public MIT Data Analysis

Hackathon (Predictive Analysis). < 0.5%

accuracy from perfect test data predictions

Dean's List - MCCC

USACO Silver Division (Perfect Score)

2nd in FPS nationals - Recognized for developing predictive model that uses statistical analysis to identify early warning signs of mental health issues in adolescents

National Seal of Biliteracy - French

## Experience

### Research & Development Intern @ The Metropolitan Museum of Art

- ❖ Developed application materials and secured \$400M in grant funds from the Department of Cultural Affairs for 40+ cultural institutions across NYC
- ❖ Curated a list of over 50,000 points of contact for all NYC affiliated politicians to facilitate outreach initiatives
- ❖ Researched & designed 3D models for an exhibition I designed: 'Traveling Through the Times'
- ❖ Created graphics for the @metteens Instagram account, including the #TeensTakeTheMet graphics, increasing following base from 7.5k to 10.5k.

### Columbia Science Honors Program

- ❖ Engaged in advanced studies and compiled research in Quantum Computing and Bioengineering, focusing on development of computational models for quantum devices.
- ❖ Conducted research on the application of nanotechnology in biomedical devices, using statistical analysis to optimize device performance.
- ❖ Developed predictive models for biomedical applications, presenting findings to an audience of Columbia alumni, mentors, and industry experts.

### HEALyu - President

- ❖ Spearheaded integration of data analytics in mental health initiatives, analyzing behavioral trends to enhance the effectiveness of district-wide mental health programs.
- ❖ Utilized statistical models to forecast the impacts of mental health policies on student outcomes - reflected in other initiatives that took into account conclusions formed
- ❖ Aided Assemb. Dan Benson with Bill A359, Belouga Video Series with #SameHere, NAMI, Pure Edge & AIR, NJAMHAA Suicide Prevention Conference Panelist
- ❖ Organized panels for professional development. Present to 100+ teachers & admin bi-annually
- ❖ Presented to multiple different school districts, Board of Education, and NJ Department of Education with WW-P superintendent Dr. David Aderhold
- ❖ Leveraged quantitative methods to evaluate efficacy of SEL programs, presenting findings to NJDOE to inform district wide revisions of curricula and DEI goals as Student Rep

### 6 Research Papers in Neuroscience, Philosophy, Psychology

#### ↳ Research Intern @ EquityInAccess Non-Profit

- ❖ Analyzed the influence of societal standards and norms on cognitive processes, providing insights into behavioral patterns and social conformity.
- ❖ Investigated the psychological impacts of warfare, encompassing aspects of combat stress and the perceptual distortion of reality amongst combatants.
- ❖ Examined the role of neural mechanisms in the development and transformation of cultural identity, with a focus on its representation within literature.
- ❖ Explored the neurological underpinnings of collective memory and trauma, contributing to deeper understandings of historical consciousness.

## Projects

### Algorithmic Trading Models

- Developed various models using machine learning techniques to predict stock prices with high accuracy, implementing back-testing and real-time trading simulations. Annual return of 6%

### Real World Data Analysis Applications

- Comprehensive statistical analyses examining trends and patterns in crime rates across Chicago neighborhoods. Utilized regression analysis and time-series forecasting to predict crime hotspots. Provided actionable insights for preventive strategies and policy recommendations.
- Conducted data analyses for local businesses to optimize operational strategies, improving profitability and customer engagement.