

YS

YASH SAXENA

SOPHOMORE AT MAGGIE L WALKER GOVERNOR'S SCHOOL
MACHINE LEARNING RESEARCHER

EXTRACURRICULARS

Machine Learning Scientific
Research

Math Club

Programming Subteam in
Robotics Club

Science Player in Quizbowl Club

SKILLS

Programming languages:
Python, HTML, CSS, JavaScript,
and Java.

Experience in Machine Learning
and Data Science

Speak English, Hindi, Spanish,
and Latin

Violin

Chess

Mentoring Children

Public Speaking and
Presentation

EDUCATION

SOPHOMORE • MAGGIE L WALKER GOVERNOR'S SCHOOL – RICHMOND, VA
(RANKED 5TH BEST PUBLIC SCHOOL IN AMERICA BY NEWSWEEK)

Unweighted GPA: 3.84/4.0

Weighted GPA: 4.31

AP Classes: AP Calculus BC, AP Computer Science Principles, AP United
States History

Languages: Latin and Spanish

Member of Chamber Orchestra (Highest Level Orchestra Offered at
School)

ACHIEVEMENTS

- Conducted Scientific Research for Four Years and Won Awards:

2022 - Created a Science Project called “**The Effect of Different Machine Learning Algorithms on Water Detection**” that applied machine learning algorithms to effectively detect bodies of water in the images obtained by earth orbiting satellites.

- Submitted to multiple science fairs and awaiting results

2021- Created a Science Project called “**The Effect of Using Multiple Languages of Parkinson's Disease Detection with Machine Learning**” that evaluated multiple Machine Learning algorithms to determine which algorithm could more accurately detect Parkinson's Disease from voice samples using multiple languages. Won:

- Bronze medal in the Science Category at Genius Olympiad International Science Fair in Innovation
- 2nd place in the Medical Science category at the VJAS (Virginia Junior Academy of Science)



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- 3rd place in the Computer Science Category at the Metro Richmond STEM Fair

2019 – Created Science Project called “**The Effect of Different Wind Turbine Blade Designs on Energy Output**” that compared various wind turbine blade designs to determine the most efficient model. Won:

- 3rd place in the Engineering category at Metro Richmond STEM Fair
- Honorable Mention in the Engineering category at Virginia Junior Academy of Science
- Accepted into and participated in the **Summer Stem Institute Bootcamp Program** during the Summer of 2020
- Accepted into the **Summer Stem Institute Research Program** during 2021
- Quizbowl Club **Team Captain** of B Team
- Member of **National Music Honor Society**
- Conferred **Presidential Gold Medal** of Service in 2021 for Volunteering at Science Museum of Virginia
- Won the **Outstanding Delegate** award at the Princeton Model Congress
- Received **Gold Medal** (Summa Cum Laude) on **National Latin Exam** for Latin I
- Won **President’s Award** for Educational Excellence in Middle School.

JOB AND VOLUNTEERING EXPERIENCE

- Currently a member of the Student Advisory Committee at VJAS (Virginia Junior Academy of Science)
- **Summer Camp Internship** at the Science Museum of Virginia as a Counselor for Science Camps (June 2021 – Aug 2021)
- Volunteered at a Non-Profit called SteamStation as a Chess Teacher
- Volunteered at a Non-Profit called Music Orchard as a Violin Teacher



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