Mehul Ghosal

mehulghosal.github.io | github.com/mehulghosal

Education

Millburn High School, Millburn, NJ; GPA 4.1
- 5 on AP Biology and AP Computer Science A exams
- 35 ACT; 780 Bio Subject SAT

Experience

Leadership
- hackMHS VI (2019), VII (2020) Sponsorship Lead
- Project lead for *Lead Zeppelin*
- Co-President for MHS Astronomy Club

Teaching
- Python/JS game development teacher for Cool Coding Club
- Volunteer JOAD coach for Wa-Xo-Be Archery Club
- Volunteer mentor for hackMHS V and VI, hosted "Intro to Python" workshop

Programming
- Proficient in Python data analysis - numpy, opencv, scikit-learn, and tensorflow
- Proficient in C++ development for robotics
- Proficient in Android app development with Dart & Flutter

Projects

- *Deriving Horizontal Velocities of Equatorial Plasma Bubbles*
    - Research project with Dr. Pradipta; analysis of data to find speeds of artifacts
- *Lead Zeppelin*
    - Mechanism to automate guitar playing; built from scratch, powered by Raspberry Pi
- MHS Vex Robotics Team 2018-2020
    - Codebase for autonomous and driver control written in C++
- *NexGenMath*
    - Android app to improve math practice; HackNYU 2019 education track submission

Accomplishments

- Won a national gold in my age division for olympic recurve archery in 2015.
- Placed 3rd in state for NJ Science League for earth science in 2017.
- Placed top three for accessibility track at HackNYU 2018 with my peers for *MedTime*.
- Won best education hack at hackMHS II for *Studious.*