

Nikhil Sardana

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github.com/nikhilsardana

- Education** **Thomas Jefferson High School for Science and Technology**
Computer Systems Research, 2014 - 2018
GPA: 4.44
Post-AP Courses: Parallel Computing (C, MPI), Artificial Intelligence (Python),
Multivar Calculus, Math Techniques, Computer Vision (C++)
- Experience** **Communications Engineering Branch, National Institutes of Health**
Engineering Intern, June 2017 - August 2017
Project: Classifying Alzheimer's from fMRI Data using Convolutional Networks
Inception-ResNet-v2 model diagnoses Alzheimer's and stages of cognitive
impairment more accurately than previous algorithms.
Awards: Regeneron STS Scholar, 2018
- Projects** **Automating Identification of Terrorist Recruitment on Social Media**
Worked with friend to create algorithm to identify terrorist propaganda
accounts. Used convolutional networks for flag and logo identification and
SVMs for account classification. Presented research at Raytheon and NSA.
Awards: Intel International Science and Engineering Fair Finalist, 2017
Siemens Competition Semifinalist, 2016
- Team SegFault, MIT Battlecode**
Worked in team of 4 in this month-long competition that combines battle
strategy, software engineering, and AI. Wrote pathfinding, dodging, and
communications algorithms in Java.
Awards: 5th Place | High School Division, 2017
- Leadership** **TJHSST Machine Learning Club**
Co-Founder and Captain, 2016 - 2018
Created lectures and presentations to teach other students the theory behind
ML. Developed weekly Kaggle InClass competitions to apply material to
real-world datasets. Mentored student ML research. Procured sponsorship
from Intel, Yext, and TJ Partnership Fund for computational resources.
- TJHSST Chemistry Team**
Webmaster, 2016 - 2018
Pioneered use of ChemDoodle 3D models to create interactive learning.
Lectured on Computational Chemistry.
- Awards** **USA Biology Olympiad Semifinalist, 2015**
Top 500 in United States
- National Latin Exam Gold Medalist, 2014 - 2016**
NJCL Etymology Exam Gold Medalist, 2017
TJHSST Track and Cross Country, 2016 - Present