

Sruthi Kurada

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EDUCATION

Advanced Math and Science Academy Charter School

GPA: 4.76/5.00 – Honor Roll (Rank 2/145)

Marlborough, MA

12th Grade, High School

Activities: Varsity Tennis Team – Captain, Varsity Math Team - President, Cloud Computing Club - Co-President, Jr. Black Belt

Skills: Python – (Pytorch, TensorFlow, Keras), Java, Data Science, Machine Learning, iOS & Android Development

Awards: Google Science Fair Top 100 International Semifinalist and Massachusetts Winner, Taco Bell Live Más Scholarship Winner, Coolidge Senator Scholarship Winner, 2021 BostInno 25 under 25, NCWIT Massachusetts Winner, AIME score: 9

RESEARCH EXPERIENCE

Health Informatics Research

Data Science Research Lead

Littleton, MA

March 2018 – Current

Parkinson's Disease Diagnostic Classifier (2019 - Present):

- Developed a classifier that leverages patient voice data to diagnose Parkinson's Disease using a novel, generalizable feature extraction technique. The technology outperformed current clinical diagnostic methods
- 1st author of a conference paper for presentation at the 2020 IEEE/ACM CHASE Conference (bit.ly/pd-classification)

Generalizable Audio Classification Pipeline (2018 - 2019):

- Built state-of-the-art Audio Classifier that leveraged unique signal processing and data augmentation approaches
- Selected as Google Science Fair Top 100 International Semifinalist and Massachusetts Winner
- Published this research in The Columbia University Junior Science Journal ([2019 Edition](#))

Bayes Mendel Lab at Harvard School of Public Health

Computational Genomics Researcher

Cambridge, MA

September 2020 - Current

- Developing prognostic models to assess patient-specific risk to develop several cancer subtypes (e.g. breast, lung cancer)
- Co-authoring manuscript in production on statistical methods to engineer an “all-cancer subtype” risk assessment model

MIT PRIMES - MIT Biomedical Cybernetics Laboratory

Computational Biology Researcher

Cambridge, MA

January 2021 - Current

- Led drug discovery research to identify Ergothioneine's potential therapeutic value through *in vitro* and *in silico* protein analysis
- 1st author of manuscript currently being submitted to PLOS Computational Biology journal

WPI Data Science Institute

Summer Research Intern (Research Experience for Undergraduates)

Worcester, MA

May 2018 – October 2018

- Developed deep learning algorithms that used Recurrent Neural Networks to handle missing data in patient ICU records
- Presented research at IEEE MIT Undergrad. Research Conference (bit.ly/missing-values-healthcare) and NSF symposium

INDUSTRY EXPERIENCE & EXTRACURRICULAR ACTIVITIES

MetroHacks

MetroHacks EmpowHer Executive Director

Cambridge, MA

September 2018 – Current

- Launched EmpowHer in 2020, a national computer science competition for high school girls - grew the competition to include over 350 student participants and 85 mentors across the country during the COVID-19 pandemic
- Scaled MetroHacks, a non-profit organization dedicated to improving practical STEM education, across the entire East Coast
- Raised >\$20K in scholarships through partnerships with Fortune 500 companies including Microsoft and Staples

MITRE

Software Engineering Intern

Bedford, MA

June 2019 – August 2020

- Predicting Video Conferencing Failure (Summer 2020): Developed a productivity solution that predicts video conference failure and provides alternative collaboration methods. Winner of 2020 MITRE AI Challenge.
- Virtual Hallway Innovation Project (Summer 2019): Prototyped an employee identification system using Optical Character Recognition on employee badges and computer vision algorithms using live video data of employees entering building

FIRST Robotics Competition (FRC)

STEM Education Team Lead

Devens, MA

November 2018 – June 2021

- Led development of the Steam Splash educational platform to teach STEM to elementary school students (steamsplash.org).
- Winner of New England District Championship (Chairman's award) - Invited to 2019 Global Championship