Sruthi Kurada

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EDUCATION

Advanced Math and Science Academy Charter School **Marlborough, MA**
GPA: 4.68/5.00 – Honor Roll 11th Grade, High School

Activities: Varsity Math Team - President, Cloud Computing Club - Co-President, Varsity Tennis Team, Karate Junior 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, NCWIT National Honorable Mention (Top 400), Math Kangaroo 1st Place National Winner, Technovation National Semifinalist & NE winner

RESEARCH EXPERIENCE

Applied Audio Machine Learning Research **Littleton, MA**
Data Science Research Lead 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 achieved 87% accuracy and outperformed current clinical diagnostic methods
- First authored a conference paper for presentation at the 2020 IEEE CHASE Conference (bit.ly/pd-classification)

Generalizable Audio Classification Pipeline (2018 - 2019):
- Built a state-of-the-art Audio Classifier on the UrbanSound8k dataset that leveraged unique preprocessing and data augmentation approaches (>99% accuracy) – previously published papers only reported 74% accuracy
- 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 **Cambridge, MA**
Computational Genomics Researcher September 2020 - Current
- Developing a cancer prognostic model including many subtypes for accurate, efficient risk analysis.

MIT PRIMES Student Research at Biomedical Cybernetics Laboratory **Cambridge, MA**
Computational Biology Researcher January 2021 - Current
- Discovering the role of Ergothioneine on the mouse genome through its effect on disordered proteins.

WPI Data Science Institute **Worcester, MA**
Summer Research Intern (Research Experience for Undergraduates) May 2018 – October 2018
- Developed deep learning strategies that used Recurrent Neural Networks to handle missing data in patient healthcare records
- Presented research at 2018 IEEE MIT Undergraduate Research Technology Conference (bit.ly/missing-values-healthcare)

INDUSTRY EXPERIENCE & EXTRACURRICULAR ACTIVITIES

MetroHacks **Cambridge, MA**
MetroHacks EmpowHer Executive Director September 2018 – Current
- Launched EmpowHer in 2020, a national computer science competition for high school girls - grew the competition to include over 250 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
- Helped raise >$100K through partnerships with several Fortune 500 companies including Microsoft and Staples

MITRE **Bedford, MA**
Innovation and Technology Intern June 2019 – August 2020
- Predicting Video Conferencing Failure (Summer 2020): Increasing workplace productivity through developing an algorithm to predict video conferencing failure and providing alternative methods for collaboration
- Winner of the 2020 MITRE AI Challenge: Developed ML detection software to protect MITRE against phishing attacks
- Virtual Hallway Innovation Project (Summer 2019): Prototyped an employee identification system using Optical Character Recognition (OCR) on employee badges and facial recognition using live feed video data

FIRST Robotics Competition (FRC) **Devens, MA**
Outreach Team Lead November 2018 – June 2019
- Led development of the Steam Splash educational platform to teach STEM to elementary students (bit.ly/steamsplash).
- Winner of New England District Championship (Chairman's award) - Invited to 2019 Global Championship