Sruthi Kurada

sruthi.kurada1@gmail.com | 978-795-9032 | 1 Pine Brook Lane, Littleton, MA | linkedin.com/in/sruthi-kurada/

EDUCATION

Advanced Math and Science Academy Charter School   **Marlborough, MA**
GPA: 4.71/5.00 – Honor Roll (Top 5%)   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   **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 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   **Cambridge, MA**
Computational Genomics Researcher   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   **Cambridge, MA**
Computational Biology Researcher   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   **Worcester, MA**
Summer Research Intern (Research Experience for Undergraduates)   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   **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
- Raised >$10K in scholarships through partnerships with Fortune 500 companies including Microsoft and Staples

MITRE   **Bedford, MA**
Software Engineering Intern   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)   **Devens, MA**
STEM Education Team Lead   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