

SRIHARI KOMPELLA

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☎ (301) - 693 - 1005

✉ 13847 Ankonian Overlook

📍 Potomac, MD, 20878

RESEARCH AND DEVELOPMENT EXPERIENCE

- Created "Analysis of Convolutional Neural Network variants in the classification of Known and Unknown Signals", an analysis of the performance of Residual, Recurrent, and Deep networks on RF signal data.
- Created "Open Set Convolutional Neural Networks Aimed at Classifying Known and Unknown Signals", an analysis of the performance of Recurrent and Deep networks on RF signal data.
- Created "Defense Against Adversarial Attack on a Convolutional Neural Network", a defense mechanism on adversarial attack placed on an image classification convolutional network.
- Created "The Perils of Learning", an Adversarial Attack on an image classification Deep Network.
- Created "Malware, The Bane of Society", an anti malware system.
- Created "The Heart Rate Monitor", a mobile phone camera based heart rate monitoring system.

ACHEIVEMENTS

- Science Montgomery Honorable Mention (2022)
- HOSA International Leadership Conference for HOSA Bowl(2022)
- HOSA State Conference Invitation for Medical Math and HOSA Bowl(2022)
- Accepted to Polygence internship program
- CIA STEAM Invitation Award (2021)
- Co-Author of Montgomery Blair Math Tournament (2019)
- Science Montgomery Honorable Mention (2018)
- Aerospace Engineering Award and Rockville Science Fair Invitation (2018)
- North South Foundation Regional Science Competition 3rd Place Award (2018)
- HARRIS Science Fair Invitation (2018)
- 1st Place Francis Scott Key Fair (2018)

EXTRACURRICULAR ACTIVITIES

- Captain of Chemistry Team (2021-22)
- Captain of HOSA Blair chapter (2021-22)
- Member of Blair System Operations (2021-22)
- Member of Physics Club (2021-22)
- Member of Math Team (2019-2022)

RELEVANT COURSEWORK

- Applied Statistics, Analysis (Calculus) 1B, Analysis of Algorithms, Modeling and Simulation, Foundations of Technology 1B, Physical Chemistry, Future of Programming, Software Design, Quantum Physics, Thermodynamics, AhaGuru IIT Course (2021-22)
- Analysis (Calculus) 1A, Precalculus C, Algorithm-Data B, Earth Space Systems (2020-21)

WORK EXPERIENCE

- Machine Learning Intern at Cornell University (2022)
- Telugu teacher at ManaBadi Telugu School (2021)
- Youth Volunteer for Chinmaya Mission Cultural Center (2020)
- Introductory Python teacher for students of ages 10 to 14 (2020)

TECHNICAL SKILLS

FreeCad Autodesk Inventor Figma
React Flutter STELLA Java
JavaScript HTML CSS Python
Anaconda Jupyter Numpy
Minitab UNIX ML/AI experience
TensorFlow PyTorch fast.ai

EDUCATION

High School

Montgomery Blair High School
Mathematics and Computer Science
Magnet Program and AhaGuru IIT
Preparation Course

📅 2019 – Present (Will Graduate in 2023)

Middle School

Francis Scott Key IB Middle School and
Johns Hopkins CTY Robotics and Chess
courses

📅 2015 – 2019

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- Machine Learning Intern at Cornell University (2022)
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- Introductory Python teacher for students of ages 10 to 14 (2020)

TECHNICAL SKILLS

FreeCad Autodesk Inventor Figma
React Flutter STELLA Java
JavaScript HTML CSS Python
Anaconda Jupyter Numpy

- Precalculus A and B, Chemistry, Physics, Computer Science (2019-20)
- Cumulative unweighted GPA of 3.97 out of 4