## **Sahithi Ankireddy**

🔀 sahithia14@gmail.com 🕒 2245089318 🛮 in linkedin.com/in/sahithiankireddy 😯 github.com/sahithiankireddy14

## **Objective**

Sahithi Ankireddy is a dedicated and ambitious high school student with a demonstrated passion for computer science and societal change. Since freshman year, Sahithi has attended national competitions for research, has won multiple awards, her papers have been published, and she has a great passion for STEM. Sahithi enjoys critical thinking, and she is in the Silver Division for the USA Computing Olympiad. She is self-driven and giving back to her community is very important to her. She is a two-time recipient of the President's Volunteer Service Gold Award and has over 200 hours of service. Sahithi has also worked to combat social issues affecting her community and continues to give back by mentoring students in CS. Sahithi also actively participates in Women in STEM organizations such as Girls Who Code and NCWIT. She has won the NCWIT Aspirations in Computing Award for the Northern Illinois Regional Affilate. In her free time. Sahithi trains in martial arts and she plays badminton.

James B. Conant High School	08/2017 – Present
GPA: 3.974/4.000 SAT: 1540/1600 (ERW: 750, Math: 790)	Hoffman Estates, IL
Relevant coursework: Mobile App Development, AP Computer Science A, AP Computer Science Principles, Multivariable Calculus, AP Calculus BC, AP Physics C, Accelerated Chemistry, Honors Biology	
Coursera Courses: Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning; Convolutional Neural Networks in TensorFlow; Natural Language Processing in TensorFlow; Sequences, Time Series and Prediction	
Activities	
<b>Junior Science and Humanities Symposia,</b> <i>Chicago Region Finalist</i> Selected to present research on assistive heart disease diagnosis and brain tumor detection tools at poster and paper session	03/2019 – Present
Illinois Junior Academy of Science Presented research on assistive heart disease diagnosis and brain tumor detection tools in addition to the correlation between geomagnetic activity and GPS signals at regional and state fairs	03/2018 – Present
Youth Advocates for Change, Leader Created meaningful change through digital and in-person campaigns, where past focuses have been on vaping and mental health. I have held community discussions, started a #WellnessWednesday social media campaign, and the InterconnectED Podcast. I also organized a book drive with over 1000 books for local hospitals.	08/2019 – Present
CompSci Kids, Outreach and Leadership Team Mentored K-8th graders in CS, designed content for grade levels, organized speaker nights, and created educational videos and online curriculum	10/2018 – Present
Science Olympiad, Leader Varsity Team; led team in Earth, Space & Inquiry events, trained younger members, competed at various invites, created materials & won medals.	08/2018 – Present
Business Professionals of America, <i>National Winner</i> 1st Place at Nationals; 2 time state champion; created 10pg paper & presentation; competed at regionals, state & nationals for tech and marketing events	08/2018 – Present
<b>UIC Girls Who Code</b> Learned about mobile applications and cybersecurity; developed a mapping and rest stop tracker app using React Native	09/2019 - 04/2020
<b>Google Code In</b> Completed tasks under TensorFlow organization; built auto-encoder model and used Keras Functional API; solved an advanced machine learning problem; won 3+ task completion prize	12/2019 - 01/2020
Martial Arts	08/2017 – Present

Won 1st place in form, self defense & sparring at regional competitions for multiple years; trained three

times a week; attended belt exams & competitions

<b>Girl Genius,</b> Partnerships Manager Collaborated with and contacted organizati timely manner, and brainstormed event ide	ions for partnerships, followed up with partr	erships in a	06/2020 – present
<b>Principal's Advisory Board</b> Selected to be part of a group representing with principal	the voices of student body. Discussed action	n plans and ideas	09/2018 – Present
Research Projects			
Computer Vision was applied and specifical	<b>Detection and Segmentation using Comp</b> Ily a Mask R CNN segmentation model was ir ud VM Services in order to train and validate	nplemented	09/2019 – 04/2020
	rt Disease Using Machine Learning and De	ep Neural	10/2018 - 05/2019
Various optimization and hyper parametriza	o develop machine learning models and neur ation techniques were applied to increase th an application was created for assisted hear	e accuracy	
Correlation Between GPS Error Signals ar Investigated the correlation between GPS e this correlation and the affected values/syst	rrors and geomagnetic activity in the ionosp	here. Specifics of	08/2017 - 05/2018
Publications			
A Novel Approach to the Diagnosis of Hea Networks, <i>arXiv</i> https://arxiv.org/abs/2007.12998 ☑	rt Disease Using Machine Learning and De	ep Neural	07/2020
Northwestern's Undergraduate Research and	ern.edu/presentations/2018/correlation-bet		05/2018
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Skills			
Research Writing scientific papers and presenting at	Artificial Intelligence Machine Learning and Deep Learning	Python	nw.
Research Writing scientific papers and presenting at poster and paper sessions	Artificial Intelligence	Google TensorFlo	ow to design algorthims
Research Writing scientific papers and presenting at poster and paper sessions Java	Artificial Intelligence Machine Learning and Deep Learning	Google TensorFlo	
Research Writing scientific papers and presenting at poster and paper sessions	Artificial Intelligence Machine Learning and Deep Learning	Google TensorFlo	
Research Writing scientific papers and presenting at poster and paper sessions Java	Artificial Intelligence Machine Learning and Deep Learning C++	Google TensorFlo	
Research Writing scientific papers and presenting at poster and paper sessions  Java Honors/Awards Intel ISEF Finalist, Society for the Science at Best Paper Award at IEEE MIT Undergrade	Artificial Intelligence Machine Learning and Deep Learning C++ and Public uate Research Technology Conference,	Google TensorFlo	to design algorthims
Research Writing scientific papers and presenting at poster and paper sessions  Java Honors/Awards Intel ISEF Finalist, Society for the Science at Best Paper Award at IEEE MIT Undergrade Institute of Electrical and Electronics Engineer	Artificial Intelligence Machine Learning and Deep Learning C++  and Public  uate Research Technology Conference, ers	Google TensorFlo	05/2019 10/2019
Research Writing scientific papers and presenting at poster and paper sessions  Java Honors/Awards Intel ISEF Finalist, Society for the Science at Best Paper Award at IEEE MIT Undergradu Institute of Electrical and Electronics Engineer USA Computing Olympiad Silver Division	Artificial Intelligence Machine Learning and Deep Learning C++  and Public uate Research Technology Conference, ers	Google TensorFlo	05/2019 10/2019 02/2020
Research Writing scientific papers and presenting at poster and paper sessions  Java  Honors/Awards Intel ISEF Finalist, Society for the Science at Best Paper Award at IEEE MIT Undergradu Institute of Electrical and Electronics Engineer USA Computing Olympiad Silver Division Northern Illinois Affiliate Winner, NCWIT A	Artificial Intelligence Machine Learning and Deep Learning C++  and Public uate Research Technology Conference, ers  Aspirations in Computing	Google TensorFlo	05/2019 10/2019 02/2020 02/2020
Research Writing scientific papers and presenting at poster and paper sessions  Java Honors/Awards Intel ISEF Finalist, Society for the Science at Best Paper Award at IEEE MIT Undergradu Institute of Electrical and Electronics Engineer USA Computing Olympiad Silver Division Northern Illinois Affiliate Winner, NCWIT At 1st Place at Nationals for Global Marketing	Artificial Intelligence Machine Learning and Deep Learning C++  and Public uate Research Technology Conference, ers  Aspirations in Computing ng Team, Business Professionals of America	Google TensorFlo	05/2019 10/2019 02/2020 02/2020 05/2019
Research Writing scientific papers and presenting at poster and paper sessions  Java  Honors/Awards Intel ISEF Finalist, Society for the Science at Best Paper Award at IEEE MIT Undergradu Institute of Electrical and Electronics Engineer USA Computing Olympiad Silver Division Northern Illinois Affiliate Winner, NCWIT A	Artificial Intelligence Machine Learning and Deep Learning C++  and Public uate Research Technology Conference, ers  Aspirations in Computing ing Team, Business Professionals of America is, Business Professionals of America	Google TensorFlo	05/2019 10/2019 02/2020 02/2020 05/2019 05/2019
Research Writing scientific papers and presenting at poster and paper sessions  Java  Honors/Awards Intel ISEF Finalist, Society for the Science at Best Paper Award at IEEE MIT Undergradu Institute of Electrical and Electronics Engineer USA Computing Olympiad Silver Division Northern Illinois Affiliate Winner, NCWIT A 1st Place at Nationals for Global Marketin Top 18 at Nationals in Computer Security Intel Excellence in Computer Science Awards	Artificial Intelligence Machine Learning and Deep Learning C++  and Public uate Research Technology Conference, ers  Aspirations in Computing ing Team, Business Professionals of America is, Business Professionals of America	Google TensorFlo	05/2019 10/2019 02/2020 02/2020 05/2019 05/2019 03/2019
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Research Writing scientific papers and presenting at poster and paper sessions  Java  Honors/Awards Intel ISEF Finalist, Society for the Science at Best Paper Award at IEEE MIT Undergrade Institute of Electrical and Electronics Engineer USA Computing Olympiad Silver Division Northern Illinois Affiliate Winner, NCWIT A 1st Place at Nationals for Global Marketin Top 18 at Nationals in Computer Security Intel Excellence in Computer Science Awa Illinois Junior Academy of Science Region 3 x Best In Category, Illinois Junior Academy	Artificial Intelligence Machine Learning and Deep Learning C++  and Public  uate Research Technology Conference, ers  Aspirations in Computing  ng Team, Business Professionals of America  y, Business Professionals of America  ard, Intel  n 6 Special Award, American Statistical Asso	Google TensorFlo	05/2019 10/2019 02/2020