

Sravya Kondrakunta

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Education

- Aug 2017 – **Wright State University**,
Dec 2021 *Computer Science and Engineering*, Ph.D., CGPA–3.70/4.0.
- Aug 2015 – **Wright State University**,
July 2017 *Computer Science and Engineering*, Masters, CGPA–3.66/4.0.

Work Experience

- Feb 2022 – **Teaching and Research**, ASSISTANT PROFESSOR, ST.OLAF COLLEGE.
present*
 - Teaching and designing course work for undergraduate students.
 - Maintain active research in the field of artificial intelligence.
 - Service to the college by serving in various committees and to the research community through peer reviews, publications, organizing events such as workshops and conferences.
- May 2016 – **Frameworks for Developing Intelligent Autonomous Agents**, GRA, COLAB²-WSU.
Dec 2021 Demo Link: <http://www.airnd.org/sravya/#projects>
 - Developed several Machine Learning and Deep Learning Frameworks for Underwater autonomous robots to study aquatic hotspots and predict the flow rate in the underwater region.
 - Applied Convolutional Neural Networks to detect realworld objects using Baxter Robot's Cameras. Also, performed Speech to text conversion to understand human utterances in the real world.
 - Developed and published several Probabilistic and Statistical methods to develop Intelligent Autonomous Agents.
- Jan 2016 – **Detection of Gender Bias in STEM**, INDEPENDENT RESEARCHER, DASELAB-WSU.
May 2016 Lab Link: <https://daselab.cs.ksu.edu/>
 - Applied Natural Language Processing and ML techniques on a large corpus to identify gender bias in STEM.
 - Performed sentiment analysis and topic modeling on large corpus of data.
 - Web scraped data from ratemyprofessors.com, performed data preprocessing techniques using Stanford NLP Parser.

Awards and Honors

- 2018 StartUp: **SquadUp**, won the October 2018 Hackathon conducted by **YCombinator** with 250 participants across 80 projects. <https://blog.ycombinator.com/october-2018-hackathon-recap/>
- 2016 – 2021 Worked under several prestigious grants: **NSF 1849131; ONR N00014-18-1-2009; AFOSR FA2386-17-1-4063.**

Hackathons

- HACK-STATA **Hack-CWRU, Case Western Reserve University, OH.**
Project Link: <https://devpost.com/software/hack-stata>
 - Designed a recommendation engine to recommend hackathons that benefits users based on their profile.
 - Developed visualizations using Scikit-learn and Matplotlib to generate statistics and live graphs to display the benefits of attending the recommended hackathon.
- COMTOR **DerbyHacks 3, University of Louisville, KY.**
Project Link: <https://devpost.com/software/comtor>
 - Designed an Image recognition application which monitors users habits using Python, Tensorflow and OpenCV
 - Evaluated on multiple real-world actions and obtained an average F1 score of 0.87.
- VIRTUAL DOCTOR **SpartahackIV, Michigan State University, MI.**
Project Link: <https://devpost.com/software/your-virtual-doctor>
 - Designed disease predicting web application on user's symptoms using HTML, JS, Python, Django, ML and NLP.
 - Developed a recommendation system to recommend nearest hospital based on the user's symptoms.

Skills

- Languages Python, R, C++, Java, Lisp
- Frameworks Django, Flask, Angular JS, Bootstrap, React-native
- Database My SQL, PostgreSQL, SQLite, MongoDB, Amazon DynamoDB
- Tools Net Beans, Eclipse, Weka, R, Gazebo, MOOS, Tableau
- Libraries TensorFlow, Theano, Keras, Scikit-Learn, Gensim, Pandas, NumPy, SciPy, Matplotlib, Nltk, PyTorch
- Data Analysis Tableau, R programming(shiny, ggplot2), Python, Weka, Google Analytics