

Sairam VCR

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Research Interests

Computer Vision, Deep Learning, Object Detection, Segmentation, Tracking.

Education

Indian Institute of Technology (IIT), Hyderabad	8.52 / 10
PhD in Artificial Intelligence	<i>Aug 2020 - present</i>
Advisor: Dr. Vineeth N Balasubramanian	
Collaboration: DRDO - Young Scientist Laboratory	
Indian Institute of Information Technology (IIIT), Tiruchirappalli	9.17 / 10
B. Tech. in Computer Science and Engineering	<i>2016</i>
Gold medal for Academic Excellence	
Sri Chaitanya Junior College	98.0 %
Intermediate , Class 12	<i>2013</i>
Triveni Talent School	10 / 10
SSC, Class 10	<i>2012</i>
Gold medal - State first in English	

Publications

2023:

2. Rebbapragada V C Sairam, Monish Keswani, Uttaran Sinha, Nishit Shah, Vineeth N Balasubramanian, ARUBA: An Architecture-Agnostic Balanced Loss for Aerial Object Detection, *IEEE/CVF Winter Conference on Applications of Computer Vision, WACV 2023* [arXiv].
1. Charchit Sharma, Ayan Kumar Pahari, Pranoy Panda, Rebbapragada V C Sairam, Deepak Vijaykeerthy, Vineeth N Balasubramanian, Do Models see Corruption as we see? An Item Response Theory based study in Computer Vision, *ICLR Workshop on Practical Machine Learning for Developing Countries: learning under limited/low resource scenarios, ICLR 2023*.

Services

- Subreviewer for IJCAI'23
- Student Volunteer for ACML 2022.

Research Forums Attended

- Google Research Week 2023
- Conferences: ACML 2022

Teaching

Teaching Assistant:

- Sequence Models (Spring 2023)
- Deep Learning (Spring 2023)
- Reinforcement Learning (Summer 2022)
- Foundations of Machine Learning (Fall 2021)
- Intro to Modern AI (Fall 2020)

Skills

- Libraries and Tools: PyTorch, TensorFlow, Numpy, Scipy, scikit-learn, OpenCV, Pandas
- Miscellaneous: Dockers, Git, Digital system design, 8086 & 8085 Micro processor, Windows, Ubuntu

Relevant Courses

- AI5000 - Foundations of Machine Learning
- AI5100 - Deep Learning
- CS5803 - Natural Language Processing
- AI5002 - Probability and Random Variables
- AI5006, AI5106 - Linear Algebra

Coursera Courses:

- Introduction to Artificial Intelligence
- Python for Data Science, AI & Development
- Neural Networks and Deep Learning
- Getting started with AI using IBM Watson
- Building AI powered chatbots

Work Experience / Projects

Identification of Indian Sign Language using Transfer Learning (Apr – Jun 2020)

- Implemented a CNN model using Tensorflow, OpenCV, and transfer learning techniques
- Designed an interactive web interface that utilizes a laptop camera for real-time sign language detection
- Successfully integrated the model and interface to create a fully functional sign language detection system

Full Stack Developer - Aranya Organics & Generals, Hyderabad (Mar – May 2019)

- Designed a dynamic and interactive website for a start up manufacturing organic beauty products
- Integrated the website with Flipkart and increased their sales by 52%

Extra Curricular Activities

- Member of IITH ACM Chapter
- Gold medal in Carrom sigles, Prothymos'19 (IIITT Sports fest)
- First prize in district level GK competitions
- Bronze medal in Theatre drama - Balotsav'13 (state level talent competition)
- Whistling songs - Youtube Channel

Leadership

- Played an active role in formulating strategic plans for multiple academic and extracurricular events, contributing to their success, as the Vice-President of IIITT from June 2019 to July 2020.
- Maintained clear communication channels between students and administration as Secretary of IIITT from June 2018 to May 2019, ensuring efficient coordination.
- Developed coordination and collaboration skills by serving as Secretary for Aahladh'19, IIITT's cultural festival, working closely with students, faculty, deans, and the director.

References

- Vineeth N Balasubramanian, Associate Professor in CSE, IIT Hyderabad, India. E-mail: vineethnb@iith.ac.in