

ADITYA ANANTHARAMAN

adityaan@andrew.cmu.edu • (412) 636-6221 • <https://aditya5558.github.io> • www.linkedin.com/in/aditya1997

EDUCATION

Carnegie Mellon University (CMU), School of Computer Science Master of Computational Data Science (MCDS) <i>Relevant Coursework:</i> Computer Systems, Machine Learning, Interactive Data Science	Pittsburgh, PA December 2020
National Institute of Technology Karnataka, Surathkal (NITK) Bachelor of Technology Information Technology <i>GPA:</i> 9.54/10, <i>Class Rank:</i> 5/103 <i>Relevant Coursework:</i> Linear Algebra and Matrices, Soft Computing, Design and Analysis of Algorithms, Computer Vision, Information Retrieval, Advanced Computer Networks, Time Series Analysis	Surathkal, India May 2019

EXPERIENCE

Indian Institute of Technology, Hyderabad (IITH) <i>Research Intern at Visual Learning and Intelligence (VIGIL) lab</i> <ul style="list-style-type: none">Developed a novel Multi-Space model for Zero-Shot Object Detection (ZSD).Leveraged both semantic and visual spaces and introduced a cross-modal consistency loss to alleviate hubness.Outperformed the state-of-the-art in ZSD on Pascal VOC by 14% in terms of mAP. Work accepted at WACV 2020.	Hyderabad, India August 2018 - December 2018
Microsoft <i>Software Engineering Intern</i> <ul style="list-style-type: none">Developed a plug and play service for effective management, monitoring and usage of Test clusters for the Azure Networking Team.Facilitated easy locking and unlocking of clusters and devised health checks for seamless maintenance of clusters.Built a UI dashboard alongside the service for interacting and reporting.	Hyderabad, India May 2018 - July 2018

PUBLICATIONS

- Dikshant Gupta, **Aditya Anantharaman**, Nehal Mamgain, Sowmya Kamath, V. Balasubramanian, C. V. Jawahar “A Multi-Space Approach to Zero-Shot Object Detection”, Winter Conference on Applications of Computer Vision (WACV 2020)
- Mandikal Vikram, **Aditya Anantharaman**, Suhas B S and Sowmya Kamath, “An Approach for Multimodal Medical Image Retrieval using Latent Dirichlet Allocation”, India KDD CoDS-COMAD 2019 (Oral Presentation). Short version accepted at AI for Social Good Workshop, NeurIPS 2018.
- Mandikal Vikram, **Aditya Anantharaman**, Suhas B S, Ashwin TS, Ram Mohana Reddy, “Kinect Based Suspicious Posture Recognition for Real-Time Home Security Applications”, IEEE Indicon 2018.

ACADEMIC PROJECTS

Dynamic Memory Allocator CMU <ul style="list-style-type: none">Designed a fast and efficient general-purpose dynamic memory allocator for C programs.Achieved memory utilization of 74.3% by using segregated lists and reducing data structure overhead.	Summer 2019
Paraphrase Detection using Deep Learning NITK Github <ul style="list-style-type: none">Applied paraphrase detection to the medical domain of clinical notes.Developed a bidirectional RNN model in Tensorflow with multi-perspective matching and attention mechanism.	Spring 2018
Multimodal Medical Image Retrieval NITK Github <ul style="list-style-type: none">Developed a statistical inference based model with visual topic modeling using Latent Dirichlet Allocation.Proposed novel early and late fusion techniques for fusing visual and textual features.Late fusion technique outperformed the state-of-the-art on the ImageCLEF 2009 dataset by 12% in terms of mAP.	Spring 2018
Android Malware Detection NITK Github <ul style="list-style-type: none">Designed an Autoencoder model for feature compression along with CNN and RNN models in Tensorflow.Performed pseudo-dynamic analysis of system API call sequences to generate features.	Spring 2018

SKILLS

Languages and Scripts:	C++, C, Python, Java, C#, HTML, CSS, Javascript, MySQL
Deep Learning Frameworks:	TensorFlow, PyTorch
Tools:	Android Studio, Django, Git