

ADITYA ANANTHARAMAN

adityaan@andrew.cmu.edu · +91 9900415291 · <https://aditya5558.github.io/>

EDUCATION

Carnegie Mellon University Master of Computational Data Science (MCDS), School of Computer Science	Pittsburgh, PA Dec 2020 (Expected)
National Institute of Technology Karnataka, Surathkal Bachelor of Technology Information Technology GPA: 9.54/10, Class Rank: 6/101	Surathkal, India May 2019

EXPERIENCE

Microsoft, R&D <i>Software Engineering Intern</i>	Hyderabad, India May 2018 - July 2018
<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 check-in (locking) and check-out (unlocking) of clusters and devised health checks for the maintenance of clusters.Built a UI dashboard alongside the service for interacting and reporting.	
Indian Institute of Technology, Hyderabad (IITH) <i>Research Intern at Visual Learning and Intelligence (VIGIL) lab.</i> <i>Advisor: Dr. Vineeth N Balasubramanian</i>	Hyderabad, India August 2018 - December 2018
<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 the hubness problem in ZSD.Model outperformed the state-of-the-art in ZSD on the Pascal VOC and MS-COCO datasets.	

PUBLICATIONS

- 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, NIPS 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 18.

SELECTED PROJECTS

Paraphrase Detection using Deep Learning <i>Tensorflow, Python, NLTK</i>	[Github]
Applied paraphrase detection to the medical domain of clinical notes. Developed a Bidirectional RNN model with multi-perspective matching and Attention mechanism.	
Parallel k-means Clustering <i>OpenMP, MPI, CUDA, C++</i>	[Github]
Used k-means clustering for Image Colour Quantization and Image Compression. Implemented on 3 platforms - OpenMP, CUDA and MPI with a speed up of order 10^3 in CUDA due to data parallelism.	
Android Malware Detection <i>Tensorflow, Python</i>	[Github]
Developed a Deep Autoencoder model for feature compression along with CNN and RNN based models. Performed pseudo-dynamic analysis of system API call sequences to generate features.	

PROGRAMMING SKILLS

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

ACHIEVEMENTS AND EXTRA CURRICULARS

Microsoft code.fun.do Secured 2nd position for developing a smart library management app
Awards Awarded JN Tata Endowment Scholarship for pursuing higher studies
Lawn Tennis Winner at All India Inter-NIT Tennis Tournament 2017-18 and 2018-19
Organizations Student member at Institute of Electrical and Electronics Engineers (IEEE)