

ADITYA ANANTHARAMAN

adityaan@andrew.cmu.edu · (412)636-6221 · <https://aditya5558.github.io/> · LinkedIn: [/aditya1997](#)

EDUCATION

| | |
|--|---------------------------------|
| Carnegie Mellon University , 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 Bachelor of Technology Information Technology <i>GPA:</i> 9.54/10, <i>Class Rank:</i> 6/101 <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 and MS-COCO datasets. | 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 check-in (locking) and check-out (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

- 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.Reduced external and internal fragmentation 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. | 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 |

ACHIEVEMENTS AND EXTRA CURRICULARS

| | |
|---|---------------|
| Awards Awarded JN Tata Endowment Scholarship for pursuing higher studies | 2019 |
| Lawn Tennis Winner at All India Inter-NIT Tennis Tournament | 2017 and 2018 |
| Microsoft code.fun.do Secured 2nd position for developing a smart library management app | 2016 |