

ADITYA ANANTHARAMAN

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

EDUCATION

Carnegie Mellon University

Master of Computational Data Science (MCDS)

Pittsburgh, PA
August 2019 - Dec 2020 (Expected)

National Institute of Technology Karnataka, Surathkal

Bachelor of Technology Information Technology

GPA: 9.54/10, Class Rank: 6/101

Surathkal, India
August 2015 - May 2019

EXPERIENCE

Microsoft, R&D

Software Engineering Intern

Hyderabad, India
May 2018 - July 2018

- 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)

Research Intern at Visual Learning and Intelligence (VIGIL) lab.
Advisor: Dr. Vineeth N Balasubramanian

Hyderabad, India
August 2018 - December 2018

- 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 *Tensorflow, Python, NLTK*

[\[Github\]](#)

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 *OpenMP, MPI, CUDA, C++*

[\[Github\]](#)

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 *Tensorflow, Python*

[\[Github\]](#)

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)