

# ADITYA ANANTHARAMAN

adityanant@gmail.com · +91 9900415291 · <https://aditya5558.github.io/>

## EDUCATION

### National Institute of Technology Karnataka, Surathkal

Bachelor of Technology Information Technology

GPA: 9.47/10 (6 sems), Class Rank: 6/101

Surathkal, India

August 2015 - May 2019

### Senior Secondary School

Class 12, CBSE AISSCE Secured 96 percentage and 99.38 percentile

Bangalore, India

June 2013 - March 2015

### Secondary School

Class 10, CBSE AISSE Scored a perfect 10/10 CGPA

Hyderabad, India

June 2012 - March 2013

## RESEARCH EXPERIENCE

### Indian Institute of Technology, Hyderabad (IITH)

Project Assistant at Visual Learning and Intelligence (VIGIL) lab.

Advisor : Dr. Vineeth N Balasubramanian

Hyderabad, India

August 2018 | Present

- Working on Zero Shot Object Detection.
- Developed novel additions to Faster RCNN architecture to improve performance in zero shot setting.

### Institute of Systems Studies and Analysis, DRDO

Summer Research Intern

New Delhi, India

May 2017 | July 2017

- Worked on Frequent Itemset Mining using Eclat algorithm for large datasets.
- Extended the Eclat algorithm and developed FT-Eclat for Fault-Tolerant Frequent Itemset Mining.

## WORK EXPERIENCE

### Microsoft, R&D

Software Engineering Intern

Hyderabad, India

May 2018 | July 2018

- Worked in the Microsoft Azure Networking team and developed a Test Cluster management, monitoring and usage plug and play service.
- Built a UI dashboard for real-time interacting and reporting alongside the service.

## PUBLICATIONS

- Mandikal Vikram, **Aditya Anantharaman**, Suhas B S and Sowmya Kamath, "An Approach for Multimodal Medical Image Retrieval using Latent Dirichlet Allocation", 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 based 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. k-means clustering implemented in parallel on 3 platforms - OpenMP, CUDA and MPI with performance comparison.

### Android Malware Detection Tensorflow, Python

[\[Github\]](#)

Classification of android apps done based on pseudo-dynamic analysis of system API Call sequences.

Developed a Deep Autoencoder model for feature compression along with CNN and RNN based models.

## PROGRAMMING SKILLS

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

## ACHIEVEMENTS AND EXTRA CURRICULARS

**Microsoft code.fun.do hackathon** Secured 2nd position in online round held at NITK Surathkal.

**Lawn Tennis** Winner at All India Inter-NIT Tennis Tournament 2017-18 and Runners up in 2016-17

**Executive Member** Computer Society IEEE-NITK Student Branch, Web Enthusiasts' Club NITK