Aditya Anantharaman

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Education

National Institute of Technology Karnataka, Surathkal — Surathkal, India
BTech Information Technology *GPA:* 9.47 *(6 sems) Class Rank:* 6/101 — Aug 2015 - May 2019

Kendriya Vidyalaya Hebbal — Bangalore, India
Class 12, CBSE AISSCE *Secured* 96 *percentage and* 99.38 *percentile* — June 2013 - March 2015

Kendriya Vidyalaya Picket — Hyderabad, India
Class 10, CBSE AISSE *Scored a perfect* 10/10 *CGPA* — June 2012 - March 2013

Research Experience

Indian Institute of Technology, Hyderabad (IITH) — Hyderabad, India
Project Assistant at Visual Learning and Intelligence (VIGIL) Lab — Aug 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 — New Delhi, India
Summer Research Intern — May 2017 | July 2017

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

Work Experience

Microsoft, R&D — Hyderabad, India
Software Engineering Intern — 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 interacting and reporting alongside the service.

Publications

Mandikal Vikram, **A Aditya**, Suhas B S and Sowmya Kamath, *"An Approach for Multi-modal Medical Image Retrieval using Latent Dirichlet Allocation"*, CoDS-COMAD 2019

Selected Projects

Paraphrase Detection using Deep Learning *Tensorflow, Python, NLTK*
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++*
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*
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

JEE MAIN 2015 Secured AIR 5457 with a percentile of 99.02 among 1.3 million candidates in the entrance test for NITs.

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, Computer Science Committee in Engineer Technical fest at NITK