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Summary

Graduate student with a Professional and Research experience in the field of Machine Learning and Software Development. Currently, I'm pursuing thesis in developing Deep Learning and Computer Vision techniques for novel healthcare solutions.

Education

Tempe, AZ **Arizona State University** **Fall 2015 – May 2018**

- M.S in Computer Engineering, December 2016. GPA: 3.89/4.0
- Graduate Coursework: Statistical Machine Learning; Foundation of Algorithms; Image Analytics and Informatics; Distributed Database Systems; Digital Image and Video Processing
- Graduate Thesis work: Deep Learning applications in Bio Medical Image Analysis.

Warangal, India **National Institute of Technology** **June 2011 – May 2015**

- B.Tech in Electronics and Communication Engineering. GPA: 8.01/10

Employment

Student Researcher **Imaging Informatics Lab** **Nov 2016-Current**

- Worked on Active fine tuning of Convolution Neural Networks to reduce the required labeled data required to measure CIMT Thickness.
- Currently working of 3D Convolution Neural Networks.

Senior Consultant **Oracle Corporation** **August 2015 – July 2016**

- Worked on all levels of Software development life cycle from requirement gathering to delivery phase.
- Developed API's and other customization for retail banking applications.
- Proficient in Java, Front End Development, Oracle database and SQL

Research Intern **National University of Singapore** **May 2015 – June 2015**

- Worked on Lucas-Kanade based feature extraction and tracking system for UAV. The whole system is implemented on zynq ZC706 FPGA using C++ based design and xilinx tools.

Research Intern **Indian Institute of Science** **May 2014 – July 2014**

- Developed a segmentation method for Brain matter in the presence of Intensity inhomogeneity. Proposed a novel high dimensional feature along with a variational level sets method for Segmentation.
- Published a paper in MCBMIIA 2016 workshop in Asian Conference on Computer vision

Projects

- **CNN driven Snake**.Working on a segmentation algorithm based on active contour evolution, whose force field is predicted by a convolution neural network.
- **Optimal Route Search**. Working on an Optimal Road network algorithm which returns a route by minimizing the budget while simultaneously maximizing keyword coverage specified by user.
- **Senior Project**. Developed a real time ECG feature extraction system for cardiac arrhythmia detection using time domain analysis, and implemented on an FPGA. A paper summarizing these results was published.

Languages and Technologies

- C++; C; Java; Python;SQL;
- Caffe; Keras; Apache Spark; Matlab; Xilinx Tools; Hadoop