

Naren Doraiswamy

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Research Experience:

IACV lab, Indian Institute of Science Guide: Dr. Soma Biswas

Deep Learning and Computer Vision Research Assistant

Aug 2018 – Present

- Working on Semantic segmentation using few shot learning to dynamically segment novel classes for developing autonomous systems for Indian road conditions.
- Working on efficient feature generation for any-shot learning in collaboration with a Ph.D. student.

Student Satellite Program, Indian Space Research Organization

Research Intern

Jan 2015 - July 2015

- Worked on implementing the Kalman filter to obtain better estimates of gyro sensors.
- Worked on implementing extended Kalman filter for attitude control of the satellite.

Publications:

In Preparation: **Dynamic Semantic segmentation using Few-shot learning**

Naren Doraiswamy*, Soma Biswas

An efficient method for feature generation for any-shot learning.

Ayyappa Kumar*, Naren Doraiswamy*, Soma Biswas

Work Experience:

Robert Bosch, India

Associate Software Engineer

Aug 2016 – July 2018

- Worked in developing data based models in component model team for engine management systems.
- Developed Machine learning models for key engine parameter estimations like common rail pressure, turbo charger lag which were used in Vehicle simulation modules.
- Initiated the development of inference model for Cylinder fill correction factor using calibrated data from OEMs.
- Also worked on model predictive control systems for developing the HiL models.
- Keynote speaker at Bosch Technical Forum.

Udacity Deep Learning Mentor and Code Reviewer

January 2018 - Present

- Providing actionable and helpful feedback to student projects in their code development.
- Advice on technical topics, explanation of incorporating and building an efficient deep learning model.

Education:

RNS Institute of Technology, Bangalore

Bachelors' of Engineering in Electronics and Communication,

August 2012- June 2016

- Percentage: 79.14%. (Top 5% in class) Converted GPA (According to WES): 3.79/4.0

Thesis: A numerical framework for GPR feature extraction and simulation using FDTD algorithm.

SBM Jain College, Bangalore

Pre-University Education, Class 12,

June 2010- Mar 2012

- Percentage: 94.68%.

Non degree Education

Computer Vision Foundation Nanodegree
Machine Learning Engineer Nanodegree
Deep Learning Foundation Nanodegree

March 2018-May 2018
July 2017 – Feb 2018
Jan 2017– July 2017

Skills:

Programming skills:

- Python, C, C++, Matlab, Bash.

Toolkits/Packages:

- Tensorflow, OpenCV, Pytorch, Caffe

Awards and Honors:

- Ministry of human resource development scholarship [MHRD], Govt. of India.
- Social welfare Scholarship.
- International Science Olympiad Finalist 2012.
- Jnanamitra Pratibha Puraskara award for outstanding performance in 10th Board Examination.

Extracurricular activities:

- District level football player.
- President of the science and literary club in School.

Volunteer Experience:

- **AI AMBASSADOR @ Nurture.ai:** I teach deep learning every Saturday at a community meetup and aim towards building a passionate and efficient AI community in the city.
- **Bosch CSR group:** Part of the group which taught mathematics and science classes for underprivileged high school kids.
- **MUST Research Club:** Part of the enthusiastic AI non-profit group headed by the principal researcher of Salesforce, India which holds and organizes seminars, classes and collaborates to solve AI problems.