Naren Doraiswamy

https://narendoraiswamy.github.io/

#63, 3RD CROSS,VHBCS, RAJARAJESHWARINAGAR

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MAIL LINKEDIN GITHUB

Research Experience:

IACV lab, Indian Institute of Science

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 domain adaptation for imbalanced data.

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:

Mennatullah Siam*, **Naren Doraiswamy***, Boris Oreshkin*, Hengshuai Yao, Martin Jagersand. **Anonymous.** Under review **CVPR 2020**

Mennatullah Siam*, **Naren Doraiswamy***, Boris Oreshkin***,** Hengshuai Yao, Martin Jagersand**. Anonymous.** Under review **ICLR workshop 2020**

In Preparation:
> **Efficient semi-supervised few-shot Domain adaptation with self-training.**
> With Dr. 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(Honors) 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   **March 2018-May 2018**
Machine Learning Engineer Nanodegree   **July 2017 – Feb 2018**
Deep Learning Foundation Nanodegree   **Jan 2017– July 2017**

Skills:

Programming skills:
- Python, C, C++, Matlab, Bash.

Toolkits/Packages:
- Pytorch , Tensorflow, , OpenCV, 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.