

Ashok Muralidharan

Student - Masters in Advanced Robotics

Budding roboticist who loves to work at the intersection of software and robotics. Interested in computer vision and deep learning applied to robotics. Have 2+ years of active software development experience.

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🐙 github.com/Ashok93

WORK EXPERIENCE

Intern AI Gestalt Robotics

07/2018 – Present

Berlin, Germany

Achievements/Tasks

- Object recognition algorithm using metric learning and few-shot learning implementation in Nvidia Jetson TX2 development board using TensorFlow.
- Built web user interface for easy data capture/recording for deep learning applications
- Built back-end services to run inference, recording and web service asynchronously.
- LANGUAGES/TECHNOLOGIES: Python, CPP, TensorFlow, HTML, Javascript, GIT, Tornado

Junior Product Hacker Report Bee Edusys Pvt. Ltd.

09/2015 – 06/2017

Chennai, India

Achievements/Tasks

- Full stack development experience in a dynamic startup environment.
- Involved in complete product development life cycle. Agile development experience with Scrum as software development framework.
- LANGUAGES/TECHNOLOGIES: Ruby, Python, Javascript, HTML, CSS, GIT, SQL

Assistant System Engineer - Trainee Tata Consultancy Services(TCS)

02/2015 – 09/2015

Chennai, India

Achievements/Tasks

- Three months of extensive training in database and business intelligence domain.
- TOOLS: Informatica Powercenter, SQL Developer, SAP BI.

EDUCATION

M.Eng(Advanced Robotics) Ecole Centrale de Nantes

09/2017 – Present

Nantes, France

Courses

- Modelling of Manipulators
- Software Architecture for Robotics
- Artificial Intelligence
- Computer Vision
- Advanced programming
- Optimization Techniques

Deep Learning(Coursera) deeplearning.ai

01/2018 – 04/2018

Nantes, France

BE(Electronics and Instrumentation) Velammal Engineering College

08/2010 – 06/2014

Chennai, India

SKILLS

Python

C++

Matlab

OpenCV

ROS

Tensorflow

Keras

Javascript

Ruby

Git(VCS)

PROJECTS:

German Traffic Signal Classification - Semester Project - TensorFlow

- Used TensorFlow for traffic signal classification task as a machine learning library. This was a part of my semester project.
- Link: <https://github.com/Ashok93/ECN-traffic-signs-classification>

Lane Detection - OpenCV

- Implemented a simple lane detection(from Udacity) using Python, OpenCV and numpy
- Link: <https://github.com/Ashok93/lane-detection>

Particle Filter Implementation - CPP

- Implemented a 2D robot class that has its associated basic functionalities
- Implemented a particle filter to find the likelihood of the same after some motion and measurement
- Link: <https://github.com/Ashok93/Particle-Filter>

Kalman Filter Implementation - CPP

- Basic Kalman filter implementation that uses Eigen Library for Matrix computations
- Link: <https://github.com/Ashok93/kalmanfilter>

CERTIFICATIONS

Neural Networks and Deep Learning

<https://www.coursera.org/account/accomplishments/certificate/X42L6YFUKWYV>

Convolutional Neural Networks

<https://www.coursera.org/account/accomplishments/certificate/NU6FETBU9MEV>

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

<https://www.coursera.org/account/accomplishments/certificate/X42L6YFUKWYV>

INTERESTS

Computer Vision

Artificial Intelligence

Machine Learning

Reinforcement Learning

Neural Networks