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 Machine Learning. Have 2+ years of active software development experience.

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WORK EXPERIENCE

Junior Product Hacker
Report Bee Edusys Pvt. Ltd.

09/2015 – 06/2017 *Chennai*

Achievements/Tasks

- Full stack development experience with expertise in user interfaces in a dynamic startup environment.
- Involved in complete product development life cycle starting from requirement gathering to post shipping tracking and analytics.
- Agile development experience with Scrum as software development framework.
- LANGUAGES/TECHNOLOGIES: Ruby, Python, Javascript, HTML, CSS, GIT

Assistant System Engineer - Trainee
Tata Consultancy Services(TCS)

02/2015 – 09/2015 *Chennai*

Achievements/Tasks

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

EDUCATION

M.Eng(Control and Robotics)
Ecole Centrale de Nantes

09/2017 – Present *Nantes, France*

Courses

- Computer Vision
- Advanced Programming
- Artificial Intelligence
- Signal Processing
- Mobile Robotics
- Modelling and Control of Manipulators
- Software Architecture

Deep Learning
deeplearning.ai

01/2018 – Present *Online*

Courses

- Neural Network and Deep Learning
- Convolutional Neural Networks

BE(Electronics and Instrumentation)
Velammal Engineering College

08/2010 – 04/2014 *Chennai*

Info

- First Class with aggregate GPA 8.04/10

SKILLS

C | C++ | Python | OpenCV | Matlab | ROS | Git(VCS) | Javascript | Ruby | Deep Learning | Machine Learning | Reinforcement Learning

PERSONAL PROJECTS

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

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

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

German Traffic Signal Classification - Using Keras
- Used Keras as ML framework for implementing Convolutional Neural Network for signal classification
- Link: https://github.com/Ashok93/German-Traffic-Signal-Classification

Cart-Pole - Inverted Pendulum(OpenAI)
- Implemented a DQN(Deep Q Network) for solving openAI cart-pole balancing problem
- Also used other techiniques like random search and hill climb approach
- Link: https://github.com/Ashok93/OpenAI-Cartpole

Tasks Board
- For the love of project management, implemented a simple kanban style tasks board using ReactJS and Redux
- https://tasks-board.firebaseapp.com/
- https://github.com/Ashok93/Tasks-Board

INTERESTS

Computer Vision | Artificial Intelligence | Machine Learning | Reinforcement Learning