# GIRISH DATTATRAY HEGDE

## INTERNSHIPS

**project trainee**
Indian Institute of Technology Delhi | Delhi India
06/2019 - 07/2019
Worked as a project trainee under the sponsored project “Collaborative Neuro-Engineering Platform for Excellence in Innovation and Translational Research” for about a month on the project ‘Endoscopic Activity Recognition’.

## SKILLS

**Technologies**

- Deep Learning(Intermediate)
- Machine Learning(Intermediate)
- Image Processing(Intermediate)
- Reinforcement Learning(Beginner)
- Genetic Algorithm(Beginner)
- NLP(Beginner)

**Programming Languages**

- Python * * * * -
- C * * * - -
- CPP * * * - -

**Frameworks**

- Pytorch(Intermediate)
- Opencv(Intermediate)
- OpenAI Gym(Intermediate)
- Open3d(Beginner)
- Pygame(Beginner)
- Tkinter(Beginner)
- Git and Github

## PROJECTS

**Depth Densification By Estimating Depth From RGB And Sparse Sensing**
Jan 2020 - present

- SAMSUNG PRISM Project
- Deep learning approach for depth densification using sparse depth and RGB image
- Tools used - Pytorch
- Trained using Nvidia DGX-1(8x Tesla V100 32GB Graphics)

## CONTACT

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Uttar Kannada, Karnataka India
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## EDUCATION

**B.E. in Electronics and Communication GPA: 9.42**
KLE Technological University | Hubli, Karnataka India
2017 - Present

**PU in Science GPA: 94.33%**
GOVT MARIKAMBA PU COLLEGE | Sirsi, Karnataka India
2015 - 2017

## LANGUAGES KNOWN

- English - professional proficiency
- Kannada - native proficiency
- Hindi - intermediate proficiency

**Under Water Image Enhancement**
Aug 2019 - Dec 2019

- Literature survey on under water restoration and enhancement
- Fusion based Framework for underwater image enhancement
- Single image approach
- Tools and Technologies: Python, Numpy, Open-cv

**nn-lab**
https://github.com/girishdhegde/nn-lab

- Implementation of neural network from scratch using python and numpy
- Highly modular approach support for user defined nn structures
- sigmoid, relu, softmax activation functions are supported
- SGD, mini-batch gradient descent supported
- MSE, BCE, Cross entropy loss functions supported
- L2 regularization
- Decision boundary visualization
- Layer visualization as transformations

**TSP**
https://github.com/girishdhegde/genetic-algorithm

- Genetic Algorithm based travelling sales person problem solver

**Gym Solver**

- OpenAI Gym control environment solver
- Technology - Reinforcement learning
- Algorithms implemented - SARSA, Q-Learning, n-step SARSA, Double Q-Learning

## ACTIVITIES

- Stack Overflow 750+ reputation with 30+ answers
- Codechef 3 star
- Hackerrank problem solving 5 star
- Attended NCVPRIPG 2019
- Attended CVG Winter Workshop 2018-19
- Attended SAMSUNG Workshop by Vice President Mr.Balaji
- Conducted CVG Winter Workshop 2019-20
- Github: https://github.com/girishdhegde
- Stack Overflow: https://stackoverflow.com/users/14108734/girish-dattatray-hegde