Varshil Gandhi

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EDUCATION

IIT GUWAHATI
B.Tech : Electronics & Electrical Engineering
Expected May 2020 | Guwahati, India
Majors CPI: 9.25/10
Minors : Computer Science & Engineering

NAVRACHANA VIDHYALAYA
Higher Secondary
Grad. May 2016| Vadodara, India

LINKS

Github:// **vjg28**
LinkedIn:// **varshilgandhi**
Twitter:// **@varshilgandhi28**

COURSEWORK

UNDERGRADUATE
Advanced Control Systems
Data Structures & Algorithms
Probability & Linear Algebra
Random Processes *
Introduction to Machine Learning
Game theory & Economics
Signals, Systems & Networks
Complex & Real Analysis
Digital Circuits & Microprocessors

ONLINE COURSES
Reinforcement Learning
Machine Learning
Deep Learning & Neural networks
* To be completed by Nov 2019

SKILLS

PROGRAMMING
Over 5000 lines:
Python • Arduino IDE code
Over 1000 lines:
C • C++
Familiar:
Matlab • Shell Scripting • HTML • Java

MISCELLANEOUS
Tensorflow • Raspberry Pi • Git • Gazebo* • OpenAI Gym • ROS* • ScikitLearn*

* Elementery expertise

EXPERIENCE

IIT MADRAS | Research Intern under Prof.Balaraman Ravindran
May 2019 – July 2019 | Chennai, India
The project was directed towards designing better end-to-end imitation learning models for autonomous driving scenarios and understanding the importance of relational modules for transfer learning and overall performance.
TAG : Imitation Learning • Deep Learning • Autonomous Driving

INTEL LABS | Research Intern
May 2018 – July 2018 | Bangalore, India
The Project was focused on developing Reinforcement learning & Imitation Learning algorithms and techniques for intelligent learning of robotic systems as collaborative multi-agents.
TAG : Deep Reinforcement Learning • Imitation Learning • Robotics

PROJECTS

AUTOMATED ROBOT FOR LIBRARY ENHANCEMENT (ARLE) | 4I Labs, IITG
July 2017 – May 2019 github.com/vjg28/ARLE
Target is to automate the work done in arranging the books in the library shelves through a movable wheeled robot in human intervened environment. I worked upon SLAM, indoor navigation, designing and 3D modelling of the bot.

LOW COST SAFETY DEVICE FOR SHIPPING VESSELS | 6th InterIIT TechMeet
Oct 2017 – Jan 2018 github.com/vjg28/ShipDetection
Lead the development of a low cost warning device for small ships to avoid accidents with giant ships. Our team devised a novel idea of measuring power decay of EM signals for distance and direction approximation.

INTER-DISCIPLINARY PROJECTS | Github
May 2017 - Present | Links in Github
These projects vary from Reinforcement Learning, Deep learning, NLP to Robotics, Networking and Assembly Language Coding.

AWARDS

2019	2nd/48	Dept Rank, IIT Guwahati
2018	3rd	6th InterIIT TechMeet, IIT Madras
2016	1915/0.2 million	JEE Advanced National Examination
2016	529/1.2 million	JEE Mains National Examination
2016	Research Fellowship	Kishore Vaigyanik Protsahan Yojna (KVPY)
2016	7th/0.5 million	Gujarat State Board Examination (GSEB)
2012	Silver Medalist	IRIS National Science Fair by Intel, CII and DST

POSITION OF RESPONSIBILITY

2018-2019	Project Manager	Robotics Club, IITG
2017-2018	Technical Panel Member	Hostel Technical Board, IITG
2017-2018	City Representative	Technolthlon
2005-2014	National Champion	Roller Speed Skating : Sports