**Anshay Agarwal**

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<https://anshay.github.io/>

**PROFESSIONALSUMMARY**

Dedicated Engineer with team player mentality and extensive knowledge of computer science and electrical engineering concepts as well as a creative aptitude for innovation with interests in Bio robots, Neurotechnology, Deep Learning and more.

**WORK HISTORY**

**Nvidia Graphics**

System Software Engineer | Pune | July 2017 – July 2018

* I was responsible for developing features on Tegra platform, debugging and fixing issues in the Imaging pipeline and overall improvement of Imaging software stack
* I delivered more than 10 critical bug fixes on camera stack including lens shading, Cuda Histogram, etc. which helped in timely delivery of the products

**Defense Research and Development Organization (DRDO)**

Scientist | Dehradun, UK | August 2013 – June 2015

* I worked on reducing the vignette due to lens shading in Long Range and Medium Range Thermal Imagers (LREO and MREO) for night vision cameras used in military
* I delivered fixes for bore-sighting, noise and poor focus for Thermal Image enhancement of the images captured with LREO and MREO resulting in significant improvement in image quality
* I designed and constructed a Raspberry Pi based Thermal Imager controller, a remote control for operating the Thermal Imager from a distance. This in-house development eliminated the need for procuring the controller from an external agency and reduced cost and development time

**North Delhi Power Limited (NDPL)**

Intern | Delhi | May 2011 – July 2011

* I worked on Operation and Maintenance of Grids and learned about towers, cables, SCADA panels, Smart grids and components of a grid

**EDUCATION**

**MASTER OF TECHNOLOGY (M.TECH.)** Computer Technology

Indian Institute of Technology Delhi (IIT Delhi)

New Delhi | 2017

* Dissertation: Thermal Video Stabilization, which stabilizes a video captured through night vision camera
* Also focused on Computational Neuroscience along with a project on Brain Computer Interfacing which involved moving a cursor on the screen using Motor Imagery signals captured via EEG

**BACHELOR OF TECHNOLOGY (B.TECH.)** Electrical Engineering

Indian Institute of Technology Mandi (IIT Mandi)

Mandi, HP | 2013

* Thesis: Automobile Collision Prevention System
* Founded Robotics Section of IIT Mandi where I along with my team built the first robot of IIT Mandi from scratch for participation in Robotics competition at IIT Delhi
* Member of Electronics Section
* Recipient of Merit Cum Means Scholarship

**SKILLS**

C++, Python, 3D Modeling (Blender), KiCAD, Matlab

**CERTIFICATE**

Tensorflow in Practice

Coursera (Online, 2019-2020)

This specialization provides a grounding to start with TensorFlow, detailing on understanding of loss functions, optimizers, convolutions, LSTM, etc. It comprised of following courses-

* Introduction to TensorFlow for AI, ML, DL
* CNN in TensorFlow
* NLP in TensorFlow
* Sequences, Time Series and Prediction

Deep Learning Specialization

Coursera (Online, 2018-2019)

Deep Learning Specialization on Coursera offered by deeplearning.ai by Prof. Andrew Ng covering following courses-

* Neural Networks and Deep Learning
* Improving Deep Neural Networks: Hyper-parameter tuning, Regularization and Optimization
* Structuring Machine Learning Projects
* Convolutional Neural Networks
* Sequence Models

**ACTIVITIES**

* Organized and managed workshop on Mobile Autonomous Robotics at IIT Mandi
* Participated in workshop on Swarm Robotics at Thapar University
* Organized multiple events at Cognizance 2009 at IIT Roorkee

**ACCOMPLISHMENTS**

* GRE Score- 321/340 (170/170 in Quantitative)
* IIT JEE Rank - 3547 (~0.4 million students)
* GATE Rank - 423 (99.998 percentile) in Electronics and Communication
* Among top 0.1% students of India in XII board exams (AISSCE) in Mathematics (100%) and Computer (99%)

**PSYCHOMETRICS**

* MBTI INTJ-T: The Architect, Analyst, Constant Improvement
* ENNEAGRAM 6w5: "The Guardian = Loyalist wing Investigator"
* VIA CHARACTER STRENGTHS: 1 Creativity, 2 Honesty, 3 Perspective, 4 Good Judgment, 5 Curiosity