# Vipin **Sharma**

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## Edu**cation**

**G.L. Bajaj Institute of Technology and Management**                                 *Greater Noida, India*
B.Tech. in Computer Science and Engineering                                           *2015 - Present*
- Aggregate Percentage (Till 6th Semester) - 70.4%

**Kendriya Vidyalaya Greater Noida, CBSE Board**                                      *Greater Noida, India*
Senior Secondary (XII)                                                                *2014-2015*
- Percentage - 83.40%

## Wor**k Experience**

**Mando Corporation**                                                                 *Gurugram, India*
Trainee Research Engineer (ADAS)                                                      *Sep. 2018 - PRESENT*
- Contributed to survey and analysis of any prior Deep Learning based perception algorithms.
- Working on development of a real-time Deep Learning based Object Detection Algorithm.

**Ativitti AI Technologies Pvt. Ltd.**                                                *Greater Noida, India*
Research Intern                                                                       *Jun. 2018 - Aug. 2018*
- Developed a Deep Learning based traffic congestion management system.
- Used pre-trained SSD model for detection of traffic elements.
- Wrote an algorithm for managing the traffic light timings according to the output given by SSD model using a weighing-metric based traffic density formula.
- Successfully ported the model onto the Raspberry-Pi model 3 SOC.
- GitHub Repo

## Aca**demic Projects**

**YOLOv3 scratch**                                                                    *Self-Initiated Project*
Technology - Deep Learning                                                            *Nov. 2018-Present*
- Reproducing Joseph Redmon's novel work of YOLO using tensorflow framework.

**Essential ML**                                                                      *Self-Initiated Project*
Technology - Deep Learning                                                            *Jul. 2018-Aug. 2018*
- Implementation of various Machine Learning algorithms from scratch without using any Machine Leaning libraries.

**Image Colorization**                                                                *Self-Initiated Project*
Technology - Machine Learning                                                         *Jul. 2018-Present*
- Modelled and trained a Convolution Neural Network capable of coloring Black and White Images

**24 T-shirt category classification using CNN**                                      *Online Hackathon Project*
Technology - Deep Learning                                                            *Mar. 2018-Mar. 2018*
- Trained a Convolution Neural Network for classifying 24 visually very close T-shirt categories on a skewed data-set.
- Used Voting Ensemble technique to get over 80% accuracy and ranked in leaderboard's top-10.

## Cer**tifications**

- Python for Data Science by IBM
- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks

## Ski**lls**

- Programming Languages: C, Python, Java(familiar)
- Libraries: Numpy, Pandas, OpenCV, Matplotlib, Tensorflow