Vipin **Sharma**

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Education

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%

Work 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

Academic Projects

YOLOv3 scratch — *Self-Initiated Project*

Technology - Deep Learning — *Nov. 2018-Present*

- Reproducing Pjreddie's novel work of YOLO using tensorflow framework.

Essential ML — *Self-Initiated Project*

Technology - Deep Learning — *Jul. 2018-Present*

- Implementation of various Machine Learning algorithms from scratch without using any Machine Leaning libraries.

Image Colorization — *Self-Initiated Project*

Technology - Machine Learning — *Jul. 2018-Jul. 2018*

- 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.

Certifications

- 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

Skills

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