VEDANTA PAWAR

934, Stewart Avenue, Ithaca, New York- 14850
+1(607)2791196 | vp273@cornell.edu | https://www.linkedin.com/in/vedantapawar/

EXPERIENCE

Cornell University, Ithaca *Expected May'20*
Master of Engineering in Electrical & Computer Engineering

Sardar Patel Institute of Technology, Mumbai *June'19*
Bachelor of Engineering in Electronics & Telecommunications **GPA: 3.56/4.0**

RELEVANT SKILLS

Courses	Advanced ML | Computer Vision | Introduction to Data Science | Data Compression & Encryption
Certifications	Deep Learning Part 2 - RBM, Variational Autoencoders, MADE & NADE and GANs- issued by IIT Madras Udemy™ Machine Learning A-Z in Python and R (currently in progress).
Technical Skills	TensorFlow | Keras | Eagle PCB Designing | Microcontroller Designing & Programming | Raspberry Pi
Programming	C | Python | Scilab | MATLAB | Java (Basics)

INTERNSHIPS

Tata Projects, Mumbai *June'19-July'20*
Technical Consultant
Interacted with clients as a technology consultant in evaluating various proposals for construction worker safety and location tracking for improving worker efficiency. Co-developed Faster Region-based Convolutional Neural Network (R-CNN) model for hard hat detection for worker safety. Assisted in devising a ML-based algorithm for HVAC energy saving as part of Tata Projects ESCO services.

Tata ELXSI, Bangalore *June'18*
Project Trainee
Implemented a Lora WAN network for IoT using Microchip LoRa Gateway and sensor nodes for testing purposes, with a Linux based LoRa WAN Network Server. Assisted in creating an online platform for managing IoT infrastructure on ThingWorx.

Emtron Technologies, Mumbai *Aug'16-Dec'16*
Project Trainee
Acquired skills in Embedded Systems & Embedded C programming. Gained valuable experience in designing, programming and debugging of circuit boards for Arm7, AtMEL-AtMega, TI-MSP & Raspberry Pi.

PAPERS PUBLISHED

'Deep Learning Approach to Video Compression' at IEEE Bombay Section Signature Conference held at IIT Bombay in July 2019

PROJECTS

Embedded Object Detection for Drones *Ongoing*
M. Eng, Design Project with intention of performing object detection for drones on constrained resources of memory and power consumption without compromising on parameters like class accuracy and localization.

Deep Learning Based Video Compression *July'18-May'19*
Designed a Neural Network framework for video compression to outperform H.264 codec and was deployed using TensorFlow & Keras. Autoencoders were used for encoding and decoding (codec) of video frames to achieve compression of upto 2x that achieved using H.264 codec. Project paper shortlisted for IEEE conference and presented the same at IIT Bombay.

e-Yantra Robotic Contest *Oct'17-March'18*
Finished first in All-India e-Yantra Robotics competition amongst 800 institutes organized by IIT Bombay. Constructed a robot that collects, and deposits fruits, also identifies damaged vs fresh fruits in a staged farmland environment. Worked on path-planning and motion planning in V-Rep robot.

e-Nirogya- A Healthcare based Startup *Feb'17-Sep'17*
Finished first in 'Interthrone Startup Competition'- won funding of INR 300k for startup e-Nirogya, a remote health monitoring startup that provides affordable & quality healthcare services to rural areas. Devised financial projections, business model & value propositions. Conceptualized effective marketing, advertising and distribution schemes.

ADDITIONAL INFORMATION

- Played table tennis and football for 5 years for the school team at district events.
- Avid runner and a fitness enthusiast.
- Regular blood donor and charity marathoner for Rotaract Club of Juhu (Mumbai).
- 3rd place in 'Transform Maharashtra Rural Development Competition', 2017 amongst more than 1000 institutes.
- Participated and won inter-school table-tennis tournaments.