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**Github**- <https://github.com/prakhar199>

**Website** - <http://myreadersspace.com/>

# PROFESSIONAL PROFILE

To pursue an innovative, challenging and performance-oriented job allowing me to employ my skills, achieve career progression and personal development to meet the organizational needs and enrich my industrial experience.

# WORK EXPERIENCE

***Addverb Technologies, Noida.*** (June 2018 – August 2018)

*Robotics Intern*

 +**Palletization of beverage bottles**

* using ABB SCARA robot which included double decker conveyor (equipped with Pulse-roller MDR and IQZonz programmed with ConveyLinx) and Delta PLC and Servo Motor and its respective servo drive(for the lifter purpose). ( <https://bit.ly/3mnVRnE>)

***Electropulse India*** (June 2017-November 2017)

*Internship*

* Worked on instrumentation equipment (Load cell,UTM,Spring testing machines,LVDT,Data Loggers,Embedded Systems).

***Cetpa Infotech Pvt. Ltd, Noida*** (June 2019 - July 2019***)***

*Trainee*

* Deep Learning ( <https://bit.ly/3qZbOEw>) ( [https://bit.ly/2K4nHby )](https://bit.ly/2K4nHby)) ( <https://bit.ly/3np38Fk>)
* Projects:German Traffic Sign Recognition, Autonomous Driving (Steering wheel angle prediction)
* Machine Learning. ( <https://bit.ly/3gRtbm6>) ( <https://bit.ly/3807psa>)
* Projects:Health Care Chat Bot,Twitter Sentimental Analysis,Movie Recommendation System

***Omnipresent Robotech, Noida*** (April 2020 - May 2020)

*Internship*

* Face Recognition Attendance System( <https://bit.ly/3njCT2Q>)
* Person Detection and temperature screening using FLIR thermal camera and MAVIC 2 Pro Drone.

***Electropulse India*** (April 2020 - March 2021) (Freelance)

*Jr. Engineer*

* Actively working in the field of Computer Vision

***Anemoi Technologies*** (April 2021 - August 2021)

* Actively building service robots.

# EDUCATION

**College of Engineering Roorkee , Roorkee.** Bachelor of Electronics and Instrumentation – ( 8th sem - 82.2% )

**Intermediate** – City Montessori School – Lucknow, ISC Board. - **Percentage**: 88%.

**High School** – City Montessori School – Lucknow, ICSE Board - **Percentage:** 86 %

# SKILLS

* + Python/Machine Learning/ Sklearn / Deep Learning/ Keras/Tensorflow/Pytorch/NLP
  + C/Embedded System/C++
  + JAVA
  + Arduino
  + OpenCV

# PROJECTS

* **A QUERY BASED STATIC AND DYNAMIC SUMMARIZATION**

The objective of the project is to generate a static as well as dynamic summary of a video using a deep learning.

* **MEDICAL MASK DETECTION**

+**Using Tiny YOLOv3 and kaggle medical mask dataset.**( <https://bit.ly/3mjHLDX>)

* **HUMAN BODY TEMPERATURE AND SOCIAL DISTANCING PREDICTION**

+**Using FLIR Lepton thermal camera and MAVIC 2 PRO drone.**

The objective of the project was to develop solution to prevent a spread of COVID 19 by predicting the possibility of corona patient in both Aerial as well as ground camera view from the temperature difference and also predict the social distancing between people.

* **GESTURE CONTROLLED ROBOT**

+ **Using accelerometer , image processing,8 bit Microcontroller**

The objective of the project is operate a vehicle using gestures that can be obtained by MPU6050 or Hand gestures recognition using a CNN model trained on a custom image dataset. ( <https://bit.ly/37XDL6I>) ( <https://bit.ly/2JYxccq>) ( <https://bit.ly/3gN6lvL>)

* **HOME AUTOMATION SYSTEM TO CONTROL HOME APPLIANCES**

+ **Controlled using LAN, MQTT,API Facebook messenger controlled, 8 bit Microcontroller**

The objective of the project is operate control home appliances wirelessly using MQTT protocol over Facebook messenger ,Telegram messenger and IP address. ( <https://bit.ly/3r18Uzc>) ( <https://bit.ly/2WhDshS>)

( <https://bit.ly/2WgcuqN>)

* **PROTOTYPE BUGDROID NAMED ALEX**

+ **Assistant using API available and artificial intelligence markup language,image recognition 8 bit Microcontrollers.**

The objective of the project is to create a domestic robot to carry on normal conversation and perform certain task. ( <https://bit.ly/3nlvYX2>) ( <https://bit.ly/382AfIl>) ( <https://bit.ly/3p5zZzt>) ( <https://bit.ly/3oPeoLp>)

* **BRAIN LINK MOVABLE CART**

+ **Using EEG i.e electroencephalogram sensors headset and 8 bit Microcontroller**

The objective of the project is to measure voltage fluctuation due to ionic voltage fluctuation within neurons of the brain. (<https://bit.ly/3r0fB4a>)

* **Wi-Fi CONTROLLED DRONE WITH HUMAN DETECTION IN LIVE STREAM**

+ **Using a webcam, light weighted drone.**

The objective of the project is to create an Disaster management drone. Video broadcast over a local RTMP server. ( <https://bit.ly/2LtWgIq>)

* **A BOINIC ARM**+

+ **Using EMG i.e electromyography sensors headset and 8 bit Microcontroller**

The objective of the project is to measure electrical activity within the muscle and to perform actions using these electrical signals ( <https://bit.ly/3gM4PKt>)

# LINKS

Youtube - <https://www.youtube.com/channel/UCAK40sa025yhFld8ODOD4bw>

Google Drive - <https://drive.google.com/drive/u/1/folders/1kQR3YMa8vUA7ixYx9ewsXvIsUhi4FGau>