




Mahek Vasoya



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 November 29, 1999

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Objective

Looking for an opportunity to work on an important research work/study in an institution like IIT Roorkee which provides professional development, interesting experiences and personal growth. I am willing to join this internship to enhance my skills in the field of Machine Learning, Computer Vision and Data Mining which could help me in my ongoing projects and for solving real-life problems.

Internship

Project Leader & Lead Computer Vision Developer

GreenField iSoft Pvt Ltd, Gandhinagar, Gujarat



April 2019 - July 2019

Done Summer Internship Program at GreenField iSoft Pvt Ltd. on **"Facial Recognition and Computer Vision Project"** from 29th April 2019 to 9th Jul 2019 and was **rewarded Rs 10,000**.

Projects

Project 1 Digital Drishti - Autonomous Drone with Computer Vision (Funded by SSIP)

Grant: 55,000 Rs are funded by Gujarat Government under Student Startup & Innovation Policy.

Period: August 2019 – Current

In this project, we are developing an AUTONOMOUS QUADCOPTER DRONE with the combination of IoT and Computer Vision modules of: Object Recognition, Auto Take-off and Safe Landing Capability, Remotely Controlled from any location, Weight Lifting Capability and Live Video Streaming.

Project 2 Speaker Identification System using NLP

Period: January 2020 – Current

Technologies: Machine Learning, Mel Frequency Cepstral Coefficient (MFCC), Gaussian Mixture Model (GMM), library - Python_Speech_Features, Audacity, Signal Processing

In this project, we are trying to introduce an Automatic Security System that reduces the human effort. The automation of this project will be done using the Speaker Identification System. We first sorted out the problem of background noise which could be faced during the implementation of this system and are working upon training our own GMM model.

Project 3 Object Recognition for Aerial Objects

Period: January 2020 – Current

Technologies: Deep Learning Framework, Machine Learning, Computer Vision, Image Processing, Yolo, Faster-RCNN, MobilenetSSD, Darknet to train yolo.

In this project, we are trying to train our own object detection model on the Aerial objects using our own dataset for the aerial objects and have labelled it in various formats (xml, txt, csv, pickle). I am working upon training a model to get the maximum accuracy and frame rate for detecting object in realtime.

Project 4 Facial Recognition System with Liveliness

Period: January 2019 - July 2019

Technologies: Deep Learning Framework, Flask, Machine Learning, Computer Vision, Image Processing

In this project, we basically tried to introduce an Automatic Surveillance System that reduces the human effort. The automation of this project is done using the Facial Recognition System with Liveliness. We first sorted out the problems faced in existing surveillance system such as human errors, slow response in emergency situation, delay in authentication, less productive, more manpower etc. and tried to eliminate these problems in our system by applying facial recognition in real-time for identity verification etc.

Project 5 IoT Base Home Automation and Keyless Toy Car

Period: October 2019 - October 2019

In this project, we used a combination of hardware and software technologies to enable, manage home appliances and introduce a new feature to control a simple vehicle using a mobile application from anywhere using Wi-Fi connectivity.



Skills

Languages known	: C, C++, Python, JAVA, PHP, CSS, HTML
Frameworks known	: Deep Learning Framework, Darknet, Flask, .Net
Industry Knowledge	: Android Development, Machine Learning, Computer Vision, Image Processing
Tools & Technologies	: Android, Anaconda, Spyder, Firebase, Audacity, Arduino
Database knowledge	: Oracle, Firebase (Real time Database), SQL Server



Education

Bachelor of Technology, Computer Engineering

P P Savani University	Pursuing
SURAT, Gujarat	Marks 8.68 [CGPA] till Sem 5 th

High School 12th (HSC)

Gujarat Secondary & Higher Secondary Education Board	Completed, March 2017
Gandhinagar, Gujarat	Marks 61 %

10th (SSC)

Gujarat Secondary Education Board	Completed, March 2015
Gandhinagar, Gujarat	Marks 81 %



Co-Curricular Activities

- Selected in the **Top 250 teams from India** by **Facebook School of Innovation** for the **Spark AR Program**.
- Funded by Government of Gujarat (Student Startup and Innovation Policy) for best innovative project for the prototype development of start-up **Digital Drishti- Autonomous Drone with Computer Vision**
- Participated in Gujarat Industrial Hackathon 2019 and lead my team to the Grand Finale. In Regional Round from the 175 teams included 1037 students and we managed to reach in finale.
- Appeared for the **Cambridge Language Proficiency Test** in English and certified with B1 Level from Council of **Europe's Common European Framework of Reference (CEFR)**.
- Participated in workshop on "**Data Intelligence and Analytics**" sponsored by **GUJCOST & DST**.



Languages

- English, Hindi, Gujarati, German (B1 Level)



Interest

- Swimming, Reading Article's (Research papers)



Personal

Father's Name:	Mr. Subhashbhai Keshubhai Vasoya	Gender:	Male
Birthday:	November 29, 1999	Nationality:	India
Address:	B/501 Hari Krishna Residency, Katargam, Surat - 395004, Gujarat		

Declaration

I declare that the above-mentioned information is true up to my knowledge and belief. I assure you I will be loyal to the firm and do my duties sincerely.

Mahek Vasoya



References

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