

Mahek Vasoya



About Me



Fresher



November 29, 1999



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Mahek Vasoya

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



April 2019 - July 2019

Project Leader & Lead Computer Vision Developer

GreenField iSoft Pvt Ltd.

Gandhinagar, Gujarat

Done Summer Internship Program at GreenField iSoft Pvt Ltd. on "Facial Recognition and Computer Vision Project" from 29th April 2019 to 9th Jul 2019. Worked with industry professionals and got thorough feedback.



Project

Project 1

Funds:

Digital Drishti - Autonomous Drone with Computer Vision

This Project is funded by Gujarat Government under Student Startup & Innovation Policy (SSIP).

Period:

August 2019 – Current

Project Summary

An Unmanned Aerial Vehicle (UAV) is known as DRONE. We are working on building a AUTONOMOUS QUADCOPTER DRONE with the combination of IoT and Computer Vision modules of:

- Object Recognition, Auto Take-off and safe Landing Capability, Remotely Controlled without having limitation of range, Weight Lifting Capability, Live Video Streaming and High Battery Performance

Project 2

Period:

Speaker Identification System using NLP

January 2020 – Current

Technologies:

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

Project Summary

Audio information plays a rather important role in the increasing digital content that is available today; resulting in a need for methodologies that automatically analyze such content. Speaker Identification is one of the vital field of research based upon Voice Signals. Its other notable fields are. 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 problems which could be faced during the implementation of this system. such as background noise, proper dataset, proper training to the model, slow response in emergency situation, delay in authentication, less productive, etc.

Project 3 Object Recognition for Arial Objects
Period: January 2020 – Current
Technologies: Deep Learning Framework, Machine Learning, Computer Vision, Image Processing, Yolo, Faster-RCNN, MobilenetSSD, Darknet to train yolo.

Project Summary

In this project, we are trying to train our own object detection model on the Aerial objects we have built our own dataset for the aerial objects and have ladled 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

Project Summary

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. Other things we tried to eliminate these problems in our system by sending an instant alert in case of security breach or emergency, applying facial recognition in real-time for identity verification etc.

Project 5 IoT Base Home Automation
Period: October 2019 - October 2019

Project Summary

In this project tried to enable bulk of electronic, electrical and technology-based tasks within a home using a mobile phone. We used a combination of hardware and software technologies to enable control and manage home appliances and devices using a mobile application irrespective of range and can be controlled from anywhere.

Project 6 IoT Controlled Keyless Toy car
Period: October 2019 - October 2019

Project Summary

IoT system that makes connecting low end microcontrollers to the internet easy. However, its use goes beyond data gathering and simple data transmitting, and in this project, we tried to introduce a new feature to control a simple vehicle that can be teleoperated by a mobile device through an app without any range restriction for controlling the vehicle.



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 Engineering / Bachelor of Technology, Computer Engineering

P P Savani University	Pursuing
PPSU	Marks 8.68 [CGPA]
SURAT, Gujarat	

High School 12th

Gurukul Vidhyapith	Completed, March 2017
GSEB	Marks 61 %
SURAT, Gujarat	

10th

Gurukul Vidhyapith
GSEB
SURAT, Gujarat

Completed, March 2015
Marks 81 %



Co-Curricular Activities

- Selected in the **top 350 teams** from **India** by **Facebook School of Innovation** for the **Spark AR Program**.
- Funded by Government of Gujarat (Student Startup and Innovation Policy (SSIP)) for best innovative project for the prototype development of start-up **Digital Drishti- Autonomous Drone with Computer Vision**
- Participated in Gujarat Industrial Hackathon 2020 and are selected for the Regional Round.
- Participated in Gujarat Industrial Hackathon 2019 and lead my team to the Grand Finale. In Grand Finale from the 175 teams included 1037 students and we managed to reach in finale.
- Appeared for the **Cambridge Language Proficiency Test** held by Society for Creation of Opportunity through Proficiency in English (SCOP) and cleared the B1 Level from Council of **Europe's Common European Framework of Reference (CEFR)**.
- Appeared for the foreign language test and cleared the B1 Level in **German language** offered by our college.
- Participated in two days' workshop on "**Data Intelligence and Analytics**" sponsored by **GUJCOST & DST** (Government of Gujarat).
- Participated in seminar on "Introduction to Raspberry Pi & Its Application" organized by our college.



Languages

- English
- Hindi
- Gujarati
- Basic German



Interest

- Swimming
- Reading Article's (Research papers)



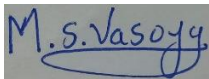
Personal

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

Marital Status: Single
Nationality: India

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.



Surat, Gujarat

Mahek Vasoya



References

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