inglebhavin98.github.io

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### Education -----

Examination	Board	Institute	Year	CGPI/%
Graduation 12th	Mumbai University C.B.S.E	Sardar Patel Institute of Technology Bright Day School, Vadodara	SEM VI 2016	7.1 76%
10th	C.B.S.E	Bright Day School, Vadodara	2014	85%

## Sponsored Projects ------

- Texas Instruments Design Challenge '18 DEC 2018 JULY 2019
  - Developed a remote monitoring device for live analysis of water quality parameters like Dissolved Oxygen, Ammonia, pH, etc in Aquafarms and fisheries
  - Worked on TI-MSP-430, SIM908 & NodeMCU
  - Used Google Cloud Platform for Analysis
  - Web app for control/display
  - Product Development Fund of INR 5 Lakhs
- Eyantra IIT Bombay

DEC 2018 - FEB 2019

- Theme: Pollinator Bee
- Improvised algorithms for stabilizing a quadcopter during its flight to localize it under a camera frame
- Worked on ROS, Gazebo and Drona-X

### • Mitsubishi Electric Cup '19

NOV 2018 - FEB 2019

- Combined Image Processing and Factory Automation Components to design a prototype for Palletizing of packages based on their dimensions
- Worked on FX5U PLC, HMI G2000, MELSERVO and D700 VFD
- Used **AWS Platform** for Digitalization
- Sponsorship worth INR 2 Lakhs

### ARM Design Challenge

SEP 2018 - JAN 2019

- A plug and play device for OBD-II ports present in cars to access system data and provide analytics using that data directly to users and data driven companies
- Worked on ARM NXP and SensorHub

# Academic Projects ------

### • Alert Correlation and Classification using Machine Learning Approach

**CURRENT** 

- o To effectively use UNIX log files to enhance system and network security
- o Develop a more accurate IDS using alerts from NIDS and HIDS similar to modern SIEM
- Automate the process of correlation using various machine learning techniques and provide a comparative study mapping these techniques to their best use cases

### Induction Heating using Pulse Density Modulation

JAN - APR 19

- o Power regulation and control for an Industrial Induction vessel heating system
- Used Atmega 32 and Microchip Controllers for firing PWM pulses and max. power point tracking

### Skills ------

Languages: C++, Python, Ladder, LaTeX, Basic Web Development (LAMP), SQL

Tools: AWS, GCP, Tensorflow, Thingspeak, Prelude, Suricata | Frameworks: BootstrapCSS, Laravel

Environments: Visual Studio, GX Works, GT Designer, Code Composer Studio-4 and Arduino-IDE

Hardware: Atmega 32, FX5U PLC, GS2000 HMI, MELSERVO, VFD D700, R-Pi, Node-MCU

Internships & Training	
<ul> <li>Internship - VPS Techhub - SPTBI</li> <li>Profile: Web Developer</li> <li>Deployed a Billing Module to generate billing information for clients in a clinic/hospital</li> <li>Maintained and patched running websites</li> </ul>	MAY - JUL 16
<ul> <li>Quantiphi Workshop - QDemy - Cloud Computing</li> <li>2-Day comprehensive workshop to get to know the working of cloud computing</li> <li>A hackathon at the end with the task to containerize an application and make two docker</li> </ul>	APR 19
<ul> <li>FA - Mitsubishi Electric India - FA &amp; Industrial Division - Pune</li> <li>Hands on training on Mitsubishi Electric Factory Automation products - FX5U PLC, GS HMI, MR-JE Servo and VFD-D700 held at Pune</li> </ul>	NOV 18 & JAN 19
<ul> <li>Linux System and Network Administrator - SCOPE</li> <li>After college course to understand linux systems and networking concepts</li> </ul>	FEB - MAR 18
Awards & Achievements	
<ul> <li>2nd Appreciation Prize Nationally in 4th Mitsubishi Electric Cup held at Manav Rachna Institute</li> <li>Finalist in DST &amp; Texas Instruments' India Innovation &amp; Design Challenge anchored by IIM Base</li> <li>Semi Finalist in Arm Design Challenge at IIIT Bangalore</li> <li>Certificate of Excellence and Appreciation Awarded by S.P.I.T &amp; Dept. of EXTC</li> <li>Finalist in 3rd Mitsubishi Electric Cup held at NIRMA University, Ahmedabad</li> <li>3rd Position at 11th All Gujarat Shotokan Karate Championship</li> </ul>	
Patents & Publications	
<ul> <li>Ingle, B., Rathi, R., Ambawade D., Sawant, R., Implementation of Virtual OPC on Cloud TENCON 2019 IEEE Region 10 flagship International Conference, Kochi, India</li> <li>Ingle, B., Jadav, R., Rathi, R., Rao, Y., Dimension Estimation Using Image Processing IEEE Sponsored Global Conference for Advancement in Technology (GCAT), Banglore, India</li> </ul>	2019
System and Method for Remote Monitoring of Vital Parameters of Water Bodies     Indian Patent Application 201921025610, filed June 2019	Patent Pending
<ul> <li>System and Method for Automation in Aquafarm using a Closed Loop System         Indian Patent Application 201921025602, filed June 2019     </li> <li>System and Method for Predictive Aquafarming         Indian Patent Application 201921025621, filed June 2019     </li> </ul>	Patent Pending Patent Pending
Extracurriculars	
<ul> <li>Active Member of Fire and Security Association of India</li> <li>Volunteer at beach cleanups led by Mr. Afroz Shah under SEVA program</li> </ul>	2017 - PRESENT 2017 - 2019

**Declaration**: I hereby declare that all the information provided here is true to the best of my knowledge and belief.

2014

2010

Finalist GUJCOST 2014

Black Belt 10th Dan Tenshinkan Federation - Japan

Date: August 1, 2019 Bhavin Ingle