

EDUCATION

B.Tech. (2016-2020)

Electronics and Communication Engineering

- NIT Surat (SVNIT, Surat)
- CGPA: 7.57/10

JEE Mains (2016)

- Rank – 6879
- Percentile > 99.5%

Senior Secondary (12th grade)

- Maharaja Sawai Bhawani Singh School, Jaipur
- CBSE Board, Subjects: PCM, Score: 95.2%

ACHIEVEMENTS AND HONORS

DOTSLASH Hackathon (2019)

- Runner's up
- Created an assistant for visually impaired people that involved NLP, Object Detection, Image Processing.

ACM Summer Challenge - Competitive Coding (2017)

- Stood 3rd in the ACM Summer Challenge organized by ACM, NIT Surat

Sapientia Literary Festival, SVNIT (2017,2018)

- Performed theatre in front of an audience of 150 people

CBSE National Science Exhibition (2014)

- Represented school in national science exhibition organized by CBSE

PROJECTS

OmniGlot Digit recognition using one shot learning

- Used the Omniglot dataset to train a Siamese function with binary cross entropy loss and a triplet loss.

Hand-Written Digit Recognition

- Used the MNIST dataset to train a Neural Network for Hand written digit recognition using MATLAB, Keras

ROBOCON 2018

- Robocon is a robotic contest organized by Asia-Pacific Broadcasting Union (ABU)
- Handled the autonomous motion for a 3-wheel holonomic drive via feedback from various sensors like LSA line sensor, Gyroscope, IMUs, encoders.
- Secured 12th rank in the nationals out of 120 participating colleges

IOT enabled lights

- Used a raspberry pi to make internet enabled lights that can be controlled from anywhere using an android phone.

Hand motion recognition project - Prezi Bee

- This device was used to control presentations using hands
- An IMU sensor was used along with an ATmega16 chip

WORK EXPERIENCE

Invento Robotics

Dec '18 – Jan'18

- Software Development Intern
- Deployed a face recognition system on the cloud. Was responsible for choosing the type of network. Creation/Cleaning of dataset
- Working on creating a Haar cascade to detect gesture "Namaste"

IIT Guwahati, Research Intern

May '18 – July'18

- Worked on various methods to calculate Auto Regression parameters and use these to estimate signal frequency
- Optimize speed and port MATLAB functions to C++
- Used Armadillo library to do various matrix calculations in C++.

SKILLS

C

Python

MySQL

C++

openCV

Flask

Embedded

Linux

Git

MATLAB

COURSES

Harvard CS50x from EdX

- Course completed without certification

Stanford University Machine Learning, Coursera

- Course completed with 96.7% score

Deep Learning Specialization, Coursera

- Course 1: Neural Networks and Deep Learning
- Course 2: Improving Deep Neural Networks
- Course 4: Convolutional Neural Networks
- Intro to Tensorflow : In Progress

Image Processing

- Elective for VIth semester

EXTRA-CURRICULAR

Drishti - Technical Club of SVNIT (2016 – 2018)

- Executive member - Worked on various technical projects as a team and conducted various events and competitions for the entire college.
- Took workshops on embedded systems and C

Madhatters Theatre club (2016 – Present)

- Founding member of this English Theatre Club.

Renasa - The official magazine of SVNIT (2016 – 2018)

- Correspondent at RENESA.

Google Developer Group - NIT Surat (2015 – 2016)

- Member