

EDUCATION

Bharati Vidyapeeth's College of Engineering (GGSIU)

Bachelor of Technology in Information Technology; GPA: 8.3/10.0

New Delhi, India

Expected May 2021

Relevant Coursework: Introduction to Programming, Data Structures using C, Database Management Systems, Switching theory & Logic

Design, Computer Organisation & Architecture, Object Oriented Programming using C++

Montfort Sr. Sec. School

PCM, Computer Science; Percentage: 94.2

New Delhi, India

April 2003 - May 2017

SKILLS

- **Languages:** Python, C, C++, HTML, CSS, JavaScript
- **Technologies:** Arduino, Raspberry Pi, Git, GitHub, ROS
- **Libraries:** Flask, TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, Jupyter, OpenCV, Matplotlib, TKinter

PROFESSIONAL EXPERIENCE

SUEZ India

Software Development Intern

New Delhi, India

June 2019 - Present

- **Talking Network:** A utility tool to facilitate studying of pipeline diagrams by using voice feedback about parameters of pipelines.
 - * Worked on a utility tool to promote usability and make readability of blueprint of pipeline networks easier.
 - * Used Google Voice API to do text-to-speech conversion and fetched dynamically changing data in an Android App from a central server.

PROJECTS

- **Lane Detection App:** A lane lines detection software to determine drivable areas for autonomous robots.
- **CraSOS:** CraSOS is a standalone device with the capabilities of accident prevention, detection and recovery.
 - Rider Rating on basis of speed of riding, braking intensity etc.
 - Camera on helmet used to click pictures of overspeeding and oddly behaving cars and their number plates.
 - On collision detection, SOS message(containing location, medical info) generated and sent to helpline numbers and 3 chosen emergency contact numbers.
 - Information broadcasted using BLE Beacon & nearby notifications to call for all help possible.
- **Real Time Object Detection:** Real time as well as custom object detection on live feed from a USB webcam achieving 15-20 fps.
- **Who's Cuter:** A Cats VS Dogs classifier implemented using CNN from scratch with a test set accuracy of 81% on a dataset of 8000 training images.
- **ROS PacBot (ongoing):** A Project developed using the Robotics Operating System. The bots are simulated using the Gazebo Simulator and trained to play the Pacman game using Reinforcement Learning techniques.

VOLUNTEER EXPERIENCE

Developer Student Clubs by Google Developers - BVP

Head of Team RNIS (Robotics and Intelligent Systems)

New Delhi, India

May 2019 - Present

- Heading a team of 10 technical executives and 300 student members
- Responsible for organising events and mentor workshops in the field of robotics and machine learning
- Organised and Mentored a Hardware Hackathon on Arduino Day 2018 with 40+ participating teams from 8 different colleges
- Judged an intra-college Ideathon event with 20+ participating teams.

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

Finalist: SKYHACK

Qualified for the Finals among the top 5 teams nationally for the Hackathon organised by the Chhattisgarh Government in Raipur.

August 2018

AIC@36Inc

Third: Hack@BVP 2.0

Secured Third position at BVCOE's Hackathon organised by CSE department.

October 2018

CSE DEPT, BVCOE

Winner: Technovation at Innerve

Won the first position at IGDТУW's Techfest in the Ideathon event for two years consecutively

October 2017, 2018

IGDTUW

Second: Ideathon at Innovision

Won the second position at NSUT's Techfest in the Ideathon event.

October 2018

E-Cell, NSUT

Winner: Robo Soccer

Won the first position in Robo Soccer at IGDТУW, MSIT, BVCOE, CIC.

2017

IGDTUW, MSIT, BVCOE, CIC