

Vinayakk Garg

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EDUCATION

Bharati Vidyapeeth's College of Engineering (GGSIPU)

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

- **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.
- **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 all 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.
- **Lane-Detection-App:** A lane lines detection software to determine drivable areas for autonomous robots.

VOLUNTEER EXPERIENCE

Head, RNIS, Developer Student Clubs by Google Developers - BVP

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 Innervive

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

October 2017, 2018

IGDUTW

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 IGDUTW, MSIT, BVCOE, CIC.

2017

IGDUTW, MSIT, BVCOE, CIC