AVINASH KUMAR

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SKILLS

Programming: Python, Java, C/C++, JSON

Frameworks: Flask, Django, Bootstrap

Databases: MySQL, PostgreSQL, Mongo

Others: GitHub, Machine Learning

Web: HTML/CSS, JavaScript, Node.js, jQuery

Language: English, Hindi

PROJECTS

Traffic Sign Recognition (https://github.com/avinashhsinghh/CarND-Traffic-sign-classifier**)**

- Developed using deep neural networks and convolutional neural networks to classify traffic signs.
- Achieved a final result with training accuracy – 100%, validation accuracy – 99.47% and test accuracy - 98.14%

Behavioural Cloning: Clone human driving (https://github.com/avinashhsinghh/behavioural_cloning**)**

- This project is to clone human driving behaviour using a Deep Neural Network. We used a simple Car Simulator. During the training phase, we navigate our car inside the simulator using the keyboard. While we navigating the car the simulator records training images and respective steering angles. Then we use those recorded data to train our neural network.

Music Genre Classifier (https://github.com/avinashhsinghh/music_genre_classification**)**

- A Web App developed using Machine Learning technique used to classify Genre of the Music based on the pattern recognition.
- We have tried various machine Learning algorithms for this project. We can get maximum accuracy of 65% by using poly SVM for 10 genre classes. If we choose 6 genre classes, we were able to get an accuracy of 85%.

Non-contact, automated cardiac pulse measurements using video imaging

- It is a browser-based, non-contact heartrate detection application. It can derive a heartrate in thirty seconds or less, requiring only a browser and a webcam.
- Based on recent research in photo plethysmography and signal processing, the heartbeat is derived from minuscule changes in pixels over time.

CERTIFICATION AND ACHIEVEMENT

- Full Stack Web Developer Nanodegree offered by Udacity.
- IBM Data Science Professional Certificate, a 9-course specialization by IBM on Coursera.
- Completed Term 1 course offered by Udacity KPIT Autonomous Tech Scholarship.
- Google IT Support Professional Certificate by Google on Coursera.

EDUCATION

Udacity Nanodegree Program	**India**
Full Stack Development	Class of 2019
Adichunchanagiri Institute of Technology	**Chikmagalur, Karnataka**
B.E, Computer Science	Class of 2011
Delhi Public School	**Jamshedpur, Jharkhand**
High School, Intermediate of Science	Class of 2009