Shravan Chandra

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EDUCATION

PES UNIVERSITY
B.Tech in EEE
May 2021 | Bangalore, India
College of Engineering
CNR Rao Scholarship
Minored in Computer Science
Minor GPA: 9.0 / 10.0
Major GPA: 8.45 / 10.0

NARAYANA PU COLLEGE
Pre Grad. May 2017 | Bangalore, India
Percentage: 96%

MAHARSHI PUBLIC SCHOOL
CBSE. April 2015 | Mysore, India
GPA: 9.0

LINKS

Github:// shrvnchndra
LinkedIn:// shrvanchndr

COURSEWORK

UNDERGRADUATE
Machine Learning
Deep Learning
Artificial Intelligence
Probability & Statistics
Reinforcement Learning
Data Structures
Algorithms
Web Development

SKILLS

LANGUAGES
Python • C/C++ • HTML/CSS
JavaScript • MATLAB • LaTeX
PostgreSQL

TOOLS & LIBRARIES
PyTorch • TensorFlow • Keras
NLTK • OpenCV • AWS • XGBoost
ScikitLearn • Git

EXPERIENCE

CDSAML | Research Intern
Oct 2019 – July 2020 | PES University, Bangalore

- Worked on improving Twitter Sentiment Analysis performance by using NLTK's Parts of Speech and saw a 5% improvement in accuracy .
- Built an Object Recognition model for Low-Light Conditions as part of the Intel Project and was placed in Top 3.

RESEARCH & PROJECTS

OBJECT RECOGNITION IN NIGHT LIGHT CONDITIONS | Research
Feb 2020 – July 2020 | PES University, Bangalore
Implementation of Object Recognition model on Night Light images by enhancing the image using Zero-DCE first, and then pass it through an object detection model YOLO built using PyTorch. The image is first checked if enhancement is required before passing through the image enhancer. The project can be found **here**.
Tools Used: OpenCV • PyTorch • Python

TWITTER SENTIMENT ANALYSIS | Research
Oct 2019 – Dec 2019 | PES University, Bangalore
Worked on Analysis of Sentiments using Parts of Speech tagging to remove certain tags of speech which reduced computational time and efficiency. Also, implemented the bag of words for scratch. The project can be found **here**.
Tools Used: NLTK • Keras • Python • Jupyter Notebook

SIGN LANGUAGE TRANSLATOR | Research
August 2020 – Present | PES University, Bangalore
Working on a real-time black-box translator, which can identify the hand signs and interpret it to any desired language. This is achieved by using CNN to first identify the patterns and gestures, and then using RNN to construct meaningful sentences. All this will be finally integrated with a Raspberry Pi for modularity and portability.
Tools Used: OpenCV • TensorFlow • Python

ENVIRONMENT MAPPING USING SLAM | Research
July 2020 – Present | PES University, Bangalore
Using Kalman Filter, with enhancements using OpenCV, the goal is to map any kind of environment. This is particularly useful in post earthquake locations, which the first responders can use to understand the inner layout better.
Tools Used: OpenCV • TensorFlow • Python

RELAXATION WEB APP | Project
July 2020
Built a relaxation app, which helps in breathing exercises with calming background music and relaxing images of nature. The project can be found **here**.
Tools Used: HTML/CSS • JavaScript

EXTRA-CURRICULAR ACTIVITIES

2018 Organizer of several competitions as part of Epsilon-2018
2019 Volunteered in Blood Donation Camps
2018 World Record for Largest Assemble to sing National Anthem
✓ Amateur Guitarist & Singer