Shravan Chandra

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SKILLS

LANGUAGES

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

MACHINE LEARNING LIBRARIES

PyTorch • TensorFlow • Keras
NLTK • OpenCV • ScikitLearn
XGBoost

MISC. TOOLS

Jupyter Notebooks • AWS • Git
Google Collab

LINKS

Github:// **shrvnchndra**
LinkedIn:// **shrvanchndr**

EDUCATION

PES UNIVERSITY

B.Tech in EEE
May 2021 | Bangalore, India
CNR Rao Scholarship Awardee
Minored in Computer Science
Minor GPA: 9.0 / 10.0
Major GPA: 8.5 / 10.0

NARAYANA PU COLLEGE

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

MAHARSHI PUBLIC SCHOOL

CBSE. April 2015 | Mysore, India
GPA: 9.0

COURSEWORK

UNDERGRADUATE

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

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 Competition 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, both 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 from 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