

# 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  
Major Percentage: 96 / 100

### MAHARSHI PUBLIC SCHOOL

CBSE. April 2015 | Mysore, India  
Major GPA: 9.0 / 10.0

## LINKS

Github:// shravnchndra  
LinkedIn:// shravnchndr

## 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 •  $\text{\LaTeX}$

### TOOLS & LIBRARIES

PyTorch • TensorFlow • Keras  
NLTK • OpenCV • AWS • Spark  
ScikitLearn • Git • PostgreSQL  
XGBoost • Hadoop • Kubernetes

## 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.
- Built my own Bags of Words model for training purposes from scratch.
- Worked on Object Recognition in 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, I implemented the bag of words for scratch. The project can be found [here](#).

Tools Used: NLTK • Keras • Python • Jupyter Notebook

### PAYLOAD CARRIER BOT | RESEARCH

March 2019 – Present | PES University, Bangalore

Training a bot to remember the path in its first trail without AI and using it to repeat tasks without human intervention. The carrier bot can carry load up to 20 kilos and can be useful in warehouses.

Tools Used: Energia • C

### 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