# Shravan Chandra

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## Profile

Recognized to be an agile learner and resourceful, currently pursuing a Bachelor's Degree in PESU. I enjoy confronting daring projects & thrive on getting the best efficiency in everything I do. I'm routinely engaged in discovering new techniques as I expand my expertise and value within the domain of Artificial Intelligence and Robotics.

## Experience

**October 2019 – Present** — Research Intern, Center for Data Science & Applied Machine Learning, PESU

I worked on improving Twitter Sentiment Analysis performance by using NLTK's Parts of Speech, tagging, and saw an improved prediction. I also built my own Bags of Model for training purposes. Currently working on Object Recognition in Low-Light Conditions as part of the Intel Project.

## Education

**2017 – 2021** — PES University, Bangalore

Bachelor of Technology, Electrical & Electronics Engineering (Minored in Computer Science)

➔ Recipient of CNR Rao Scholarship for Outstanding Performance & Distinction Scholarship
➔ GPA: 8.35

## Skills & Courses

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|---|---|
| Courses | Machine Learning \| Deep Learning \| Probability & Statistics \| Reinforcement Learning |
| | Design & Analysis of Algorithms \| Artificial Intelligence \| Data Structures |
| Languages | Python \| C/C++ \| HTML/CSS \| JavaScript \| LaTeX |
| Tools & Packages | TensorFlow \| Keras \| PyTorch \| NLTK \| OpenCV \| Gym \| Stable Baselines |

## Earlier Schooling

**2017** State Board of Secondary Education | Narayana PU College | 96%

**2015** Central Board of Secondary Education | Narayana PU College | Head Boy | 9.0

## Research Works & Projects

**SLAM using Kalman Filters & Computer Vision for Disaster Management** — Jan 2020 - Present

Using Kalman Filter, with enhancements using CNN, affected locations post-disaster like an earthquake can be mapped which can help rescuers and responders. This is further made useful using thermal cameras for detecting people.

**Payload Carrier Bot** — Jan 2020 - Present

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.

**Twitter Sentiment Analysis** — Oct 2019 - Dec 2019

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.

Object Recognition in Night Light Conditions                          Feb 2020 - June 2020

Implementation of Object Recognition model on Night Light images by enhancing the image using Keras first, and then pass it through an object detection model using PyTorch and YOLO. The image is first checked if enhancement is required before passing through the image enhancer.

Line Follower Robot Using MSP430                                        Oct 2019 – Dec 2019

The bot follows a line, built using MSP430G2553, dual IR sensors, L293 Motor Driver & dual motors. The IR sensors were used to detect the line and MSP430 follows the instructions & controls the motors using drivers to follow the line.

## Extra-Curricular Activities & Volunteering

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