

# SHRAVAN CHANDRA

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## EDUCATION

<b>Bachelor of Technology in Electrical &amp; Electronics</b> , PES University — 8.49 CNR Rao Scholarship Awardee. MRD Scholarship Awardee.	2017 - 2021
<b>Pre-Grad</b> , Narayana PU College — 92%	2015 - 2017
<b>Schooling</b> , Maharshi Public School — 9.0	2005 - 2015

## SKILLS

<b>Languages</b>	Python, Java, SQL, C/C++, JavaScript
<b>ML Frameworks</b>	TensorFlow/Keras, PyTorch, Scikit-Learn, Git, OpenCV, NLTK
<b>Industry Knowledge</b>	Machine Learning, Relational Database, Data Structures & Algorithms

## RELEVANT COURSES

• Data Structures, Design & Analysis of Algorithms	Chennai Mathematical Institute
• Data Base Management System	IIT Kharagpur
• Machine Learning & Deep Learning	deeplearning.ai

## EXPERIENCE

<b>Research Intern</b> Center for Data Science and Applied Machine Learning, PESU	Oct 2019 - July 2020 <i>Bangalore, IN</i>
<ul style="list-style-type: none"><li>• Worked on improving sentiment analysis of hate speech using NLTK and XGBoost.</li><li>• Extracted &amp; Interpreted relevant data from movielens dataset and predicted accurate behavior.</li><li>• Developed cartoons emotion recognition model with 87% accuracy using Keras and OpenCV.</li></ul>	
<b>Junior Analyst</b> Goldman Sachs	Jan 2021 - July 2021 <i>Bangalore, IN</i>
<ul style="list-style-type: none"><li>• Part of Credit Drafting team for drafting, checking and finalizing trades of clients.</li><li>• Worked on web-scraping tools to automate cross-verification of documents for faster bookings of trades.</li></ul>	
<b>Associate Software Developer</b> Robert Bosch	Sept 2021 - Present <i>Bangalore, IN</i>
<ul style="list-style-type: none"><li>• Involved in developing automation tools for using Python for internal SAP &amp; Bill of Materials worksheets.</li><li>• Working on End of Line testing software for quick and reliable evaluate the ECU for Driver Assistance. First in the department to start and lead this project.</li><li>• Developed Python GUI application &amp; algorithms to extract necessary data from LST files for an user friendly output to understand the connections on a PCB, as well as identify redundant components, estimate price and suggest replacements.</li></ul>	

## PROJECTS

<b>Diabetic Retinopathy</b>	Feb 2021 - April 2021
<ul style="list-style-type: none"><li>• Implemented ResNet and Xception for the prediction of retinopathy severity level using FastAi and Keras.</li><li>• Used OpenCV for image processing of retina scans to improve the predictions.</li><li>• Achieved 96% Kappa Score and 93% accuracy, which is 10% more than the baseline.</li></ul>	

- Developed models to create saliency maps on the retina fundus, and highlight prominent features like hemorrhages, exudates & microaneurysms.

#### **Offensive Speech Detection** — ACCEPTED @ AICECS 2021

Feb 2021 - June 2021

- Built a multitask learning model for different level of classifications using PyTorch.
- Worked on hierarchical multitask model with adversarial training for improvement in scores.
- Implemented transfer learning using Sentiment Analysis dataset correlating sentiment and offensive speech resulting in better scores.

#### **Customer Satisfaction Analysis**

Oct 2019 - Dec 2019

- Identified, analyzed, and extracted significant statistics from the customer satisfaction with different banks post demonetization survey data, using Python with NLTK and TensorFlow.
- Converted extracted data into actionable insights by predicting and modeling future behavior with 90% accuracy.

#### **Low-Light Object Detection** — ACCEPTED @ ACM 2021

Feb 2020 - July 2020

- This project ranked in the top 3 of the Intel Student Competition.
- Implemented an end to end object detection model using Zero-DCE and YOLOv3, built using Python with OpenCV and PyTorch.
- Accomplished 10% improvement in mAP score compared to vanilla YOLO.

#### **Sign Language Translator** ACCEPTED @ ICCAR 2022

Sept 2020 - April 2021

- Worked on a real-time translator, which can identify the dynamic hand and body gestures and interpret them to any desired language.
- The model was later integrated with a Raspberry Pi for modularity and low cost.
- The model can understand and translate 25 different introductory gestures and can translate it to any language as per the user requirements in 5 seconds.

### **EXTRA-CIRRICULAR ACTIVITIES**

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- Organizer of Epsilon-2018.
- Amateur Guitarist & Singer.
- Crowd Manager for the Guinness World Record for Largest Gathering to sing Patriotic Songs-2018.