

SHRAVAN CHANDRA

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EDUCATION

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

SKILLS

Languages	Python, Java, SQL, C/C++, JavaScript
ML Frameworks	TensorFlow/Keras, PyTorch, Scikit-Learn, Git, OpenCV, NLTK
Industry Knowledge	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

Research Intern Center for Data Science and Applied Machine Learning, PESU	Oct 2019 - July 2020 <i>Bangalore, IN</i>
<ul style="list-style-type: none">• Worked on improving sentiment analysis of hate speech using NLTK and XGBoost.• Extracted & Interpreted relevant data from movielens dataset and predicted accurate behavior.• Developed cartoons emotion recognition model with 87% accuracy using Keras and OpenCV.	
Junior Analyst Goldman Sachs	Jan 2021 - July 2021 <i>Bangalore, IN</i>
<ul style="list-style-type: none">• Part of Credit Drafting team for drafting, checking and finalizing trades of clients.• Worked on web-scraping tools to automate cross-verification of documents for faster bookings of trades.	
Associate Software Developer Robert Bosch	Sept 2021 - Present <i>Bangalore, IN</i>
<ul style="list-style-type: none">• Involved in developing automation tools for using Python for internal SAP & Bill of Materials worksheets.• 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.• Developed Python GUI application & 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.	

PROJECTS

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

- 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-CURRICULAR ACTIVITIES

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