SHRAVAN CHANDRA

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EDUCATION

Bachelor of Technology in Electrical & Electronics, PES University — 8.49 2017 - 2021
CNR Rao Scholarship Awardee. MRD Scholarship Awardee.

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, OpenCV, NLTK
Industry Knowledge	Machine Learning, Relational Database, Data Structures & Algorithms

RELEVANT COURSES

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

EXPERIENCE

Research Intern Oct 2019 - July 2020
Center for Data Science and Applied Machine Learning, PESU *Bangalore, IN*

- 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 Jan 2021 - July 2021
Goldman Sachs *Bangalore, IN*

- Part of Credit Drafting team for drafting, checking and finalizing trades of clients.
- Worked on web-scrapping tools to automate cross-verification of documents for faster bookings of trades. This CLI app was able to reduce the time expense by **65%**.

Associate Software Developer Aug 2021 - Present
Robert Bosch *Bangalore, IN*

- Involved in developing automation tools using Python for internal SAP & Bill of Materials worksheets.
- Developed **8+** algorithms to extract necessary data from LST files for a user-friendly output to understand the connections on a PCB, identify redundant components, estimate price and suggest replacements. This ensued an improvement of over **30%** in accuracy and **45%** reduction in time.

PROJECTS

Diabetic Retinopathy Feb 2021 - April 2021

- Implemented ResNet and Xception for the prediction of retinopathy severity level using FastAi and Keras, with OpenCV used for image processing of retina fundus.
- Achieved **96%** Kappa Score and **93%** accuracy, which was 10% more than the baseline.
- Developed models to create saliency maps on the retina fundus and highlight prominent features like hemorrhages, exudates & microaneurysms.

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, by using just a camera.
- The model can understand and translate **15** different introductory gestures and can translate it to any language as per the user requirements in **5 seconds** with **92%** accuracy.
- The database and the models are **open-sourced** for snowballing support from community and wider adoption.

Offensive Speech Detection — Accepted @ AICECS 2021 Feb 2021 - June 2021

- Built a hierarchical multitask learning model with adversarial training for different level of classifications.
- Implemented transfer learning using Sentiment Analysis dataset correlating sentiment and offensive speech resulting in increased scores by **6%**.

Low-Light Object Detection — Accepted @ ACM 2021 Feb 2020 - July 2020

- This project ranked in **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.

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.

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.