SHRAVAN CHANDRA

(+91)96066-38728 · gmail/shravnchandr · linkedin/shrvanchndra · github/shrvanchndra

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, 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 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.

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

- 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

- 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-CIRRUCULAR ACTIVITIES

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