

SHRAVAN CHANDRA

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OBJECTIVE

Research Intern with 2+ years of experience in Machine Learning & Data Science, seeking full-time opportunities in Software Development Engineering & Machine Learning.

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
Libraries & Softwares	TensorFlow, PyTorch, Scikit-Learn, Git, OpenCV, NLTK
Industry Knowledge	Machine Learning, Relational Database, Data Structures & Algorithms

RELEVANT COURSES

- Design & Analysis of Algorithms - Chennai Mathematical Institute
- Programming, Data Structures & Algorithms using Python - Chennai Mathematical Institute
- Data Base Management System - IIT Kharagpur
- Probability & Statistics - IIT Kharagpur
- Operating Systems - IIT Kharagpur
- Machine Learning - deeplearning.ai
- Deep Learning - deeplearning.ai

EXPERIENCE

Research Intern Oct 2019 - July 2020
Center for Data Science and Applied Machine Learning *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 85% accuracy using Keras and OpenCV.

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

- 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 Sept 2021 - Present
Robert Bosch *Bangalore, IN*

- Involved in developing software for PCB Components for Autonomous Driving modules using C++.

PROJECTS

Diabetic Retinopathy Feb 2021 - March 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.

Offensive Speech Detection

Feb 2021 - June 2021

- Built a multitask learning model for different level of classifications using PyTorch.
- Working on hierarchical multitask model with adversarial training for improvement in 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

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

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.

Explainable AI for Retinopathy

June 2021 - Present

- Researching explainable AI for explaining and reasoning the predictions made by the "black-box" model for retinopathy, to improve the confidence of doctors in using AI in medical field.

Propaganda Spreading Techniques in New Articles

Sept 2021 - Present

- Researching involvement of emotions, and various techniques used by news articles to spread propaganda.

EXTRA-CIRRICULAR ACTIVITIES

- Organizer of Epsilon-2018.
- Amateur Guitarist & Singer.