# SHRAVAN CHANDRA

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## OBJECTIVE

Research Intern with 1.5+ years of experience in Machine Learning & Data Science, seeking full-time opportunities in Software Development Engineering & Machine Learning.

## EDUCATION

**Bachelor of Technology in Electrical & Computer Science**, PES University — 8.46 2017 - 2021
Relevant Coursework: Data Structures & Algorithms, Machine Learning, Deep Learning.
CNR Rao Scholarship Awardee. MRD Scholarship Awardee. Minored in Computer Science.

**Pre-Grad**, Narayana PU College — 92% 2015 - 2017
**Schooling**, Maharshi Public School — 9.0 2005 - 2015

## SKILLS

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| **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 |

## 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.
- Working on web-scrapping tools to automate cross-verification of documents for faster bookings of trades.

## 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 - May 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** May 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.

## EXTRA-CIRRUCULAR ACTIVITIES

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