

# VENKATA CHARAN CHINNI

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Hyderabad, India

in Venkata Charan

Cha14ran

## EDUCATION

B.Tech(Honors) in Computer Science

International Institute of Information Technology

2017 – Present

Hyderabad, India

CGPA : 7.76/10

Intermediate

Sri Chaitanya College

2015 – 2017

Vijayawada, India

Percentage: 97%

## PROJECTS

### Sentiment Analysis Using CNN

- Implemented and trained a model to predict the sentiment of a given sentence in telugu language.
- Approach involves use of Deep learning methods like CNN's which uses Word2Vec embeddings

### Sentence Simplification

- Splitting a complex-sentence using RULE-BASED approach
- As complex sentences create difficulties in machine-translation, hence those were splitted into simpler sentences using different rules. Relative clauses were marked and then applied rules accordingly.

### Face Recognition

- A PyTorch implementation of Facial Expression classifier trained on VGG19/ResNet18 model for the FER2013 and CK+ datasets.
- Achieved an accuracy of over 90 percentage using different feature representations.

### Ultimate Tic-Tac-Toe AI bot

- Developed an AI bot that maximizes performance using min-max algorithm with alpha-beta pruning and a heuristic function.

### NEED FOR BLOOD-PORTAL

- Application is used to find blood donors for those who are in need of blood.
- Application created using HTML, Bootstrap, JavaScript, MySQL and FLASK

### Data Visualization and Exploration :Apache Superset

- In Dashboards there are customized templates where we can visualize the Data. SQL-queries were implemented for the time series Data to visualize in Apache-Superset web application

## TECHNICAL SKILLS

- C, C++, Python, Bash, MySQL
- TensorFlow, Pytorch, Keras, scikit-learn
- HTML, CSS, Javascript, Flask, React
- Git, Linux, Windows

## ACHIEVEMENTS

- JEE-MAINS 2017 : All India rank 1151
- JEE-ADVANCED 2017 : All India Rank 4602

## WORK EXPERIENCE

### NLP INTERNSHIP

#### AUTOMATION EDGE TECHNOLOGIES

June - August 2020

Worked on developing a IT Domain specific NLU engine to automate the Query Processing system at the company.

## PUBLICATIONS

### Am I a Resource-Poor Language? Datasets, Embeddings, Models and Analysis for four different NLP tasks in Telugu Language

- (In Review) Computational Linguistics Journal , Co-Author
- Under the guidance of Prof.Radhika Mamidi created a large annotated data for NLP tasks such as Sentiment Analysis, Emotion Identification, Hate-Speech Detection, and Sarcasm Detection and models ranging from baseline to SOTA Models and comparative analysis using existing pre-trained models BERT-Multilingual-Case, XLM-R

### Clickbait Detection in Telugu! Building from Scratch?

- (In Review) EACL-2021, Co-Author
- Dataset creation of approximately 115k news headlines that can be used for building an automated clickbait detection system for Telugu language, a resource-poor language and benchmarking the performance of several approaches ranging from hand-craft features to SOTA models.

### Multi-Task Text Classification using Graph Convolutional Neural Networks for Resource-Poor Language

- (Accepted), Women in Machine Learning (WIML) Workshop @ NeurIPS 2020 , Co-Author

### Unsupervised Graph-based Telugu News Articles Text Summarization

- (Accepted), Women in Machine Learning (WIML) Workshop @ NeurIPS 2020 , Co-Author

## COURSES

Machine Learning, Natural Language Processing, Introduction to Artificial Intelligence, Multivariate Analysis, Optimization methods, Data Structures and Algorithms, Operating Systems, Database systems.

## POSITIONS HELD

- Students Parliament Member at IIIT-H 2019-20
- NSS Member at IIIT-H 2018-19