VENKATA CHARAN CHINNI

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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 minimax 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 Lingustics 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 comparitive analysis using existing pre-trained models BERT-Mulingual-Case, XLM-R

Clickbait Detection in Telugu! Building from Scratch?

- (In Review)Research conference,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

- NeurIPS 2020 Women in Machine Learning Workshop, Co-Author

Unsupervised Graph-based Telugu News Articles Text Summarization

- NeurIPS 2020 Women in Machine Learning Workshop, Co-Author

COURSES

Machine Learning, Natural Langauge Processing, Introduction to Artificial Intelligence, MutliVariate 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