VENKATA CHARAN CHINNI

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EDUCATION

B.Tech(Honors) in Computer Science and Engineering

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

MINI SQL ENGINE

- SQL like Query processing engine coded in Python
- It can process certain types of SQL queries on csv files.

TECHNICAL SKILLS

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

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

Datasets, Embeddings, Models and Analysis for five different NLP tasks in Telugu Language

- (In Review phase)Computational Lingustics Journal , Co-Author
- Under the guidance of Prof.RADHIKA MAMIDI created a large annotated data (35,142 sentences in each task) for multiple NLP tasks such as Sentiment Analysis, Emotion Identification, Hate-Speech Detection, and Sarcasm Detection and models ranging from baseline(BoW,Lexicon-based,Word2Vec,GloVe) to SOTA Models(FastText, ELMo, BERT) and comparitive analysis using existing pre-trained models BERT-Mulingual-Case, XLM-R

Clickbait Detection in Telugu! Building from Scratch?

- (In Review Phase)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 ELECTRA 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, Operating Systems, Optimization methods, Data Structures and Algorithms, Database Systems

ACHIEVEMENTS

- JEE-MAINS : All India rank 1151
- JEE-ADVANCED : All India Rank 4502