Parsa Revanth

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech - AI	Indian Institute of Technology, Jodhpur	7.44/10	2020 - Present
B.Tech - ECE	Indian Institute of Technology, Guwahati	6.92/10	2019
Senior Secondary	Board of Intermediate Education, T.S	97.2%	2015
Secondary	Board of Secondary Education, A.P	9.3/10	2013

Projects

1. **Multimodal Knowledge Graph** — *Masters Thesis project(Ongoing)*
   - The objective is to use the multimodal knowledge graph and perform the tasks like link prediction and image captioning

2. **Custom NER system design using LSTM** — *Apr'21-May'21*
   - We have built an LSTM based model to predict the named entities in the text documents

3. **Sentiment Analysis** — *Apr'21-May'21*
   - We have built various models using Bi-LSTM, BERT, and other classical ML techniques like Decision trees, Naive Bayes, and Logistic regression to predict the sentiment

4. **Singer Identification from songs** — *Jan'21-Feb'21*
   - The aim of this project is to predict the singer based on his audio sample
   - We used a pre-trained deep CNN model for feature extraction, and XG-Boost is used as the final classifier

5. **IoT Energy Modeling** — *Bachelor Thesis Project*
   - A model is designed which returns the optimized energy consumption of the devices
   - Every device uses different protocols to access other devices within the network thereby consuming different energies

6. **Rangoli laying Robot** — *Jan'18-Apr'18*
   - A Robot is designed which can draw the outlines of the figures and a python program is written in order to convert the Gerber format figure to a scale that is limited by hardware

7. **Gender Classification from Speech** — *Oct'17-Nov'17*
   - An algorithm is designed to classify the gender from the speech and MFCC's are used to generate a feature vector
   - K means clustering algorithm is used to find the mean of the feature vectors

Technical skills

- **Programming languages:** C, C++, Python
- **Libraries/Frameworks:** Pytorch (*Elementary proficiency)*, Numpy, Pandas
- **Embedded Boards:** Arduino

Key courses are taken

- Artificial Intelligence
- Computer Vision
- Speech Technology
- MLOps (*To be completed in Nov'21*)
- Natural language Processing
- Pattern Recognition and Machine Learning
- Deep Learning
- Dependable AI (*To be completed in Nov'21*)

Positions of Responsibility

- Executive member of SAIL'17(Student Alumni Internal Linkage).
- Member of PR and Branding Team in Techniche'15.

Achievements

- Awarded Fellowship for securing 93.2% Percentile in GATE-2020.
- Qualified for the National level in NTSE 2013 among 50,000 candidates.
- Secured 2000 rank in TS EAMCET 2015 among 0.25 million candidates.

Extracurriculars

- Member of the NCC contingent participated on 26th January 2017.