Parsa Revanth

M.Tech - Artificial Intelligence
Indian Institute of Technology Jodhpur

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech - AI	Indian Institute of Technology, Jodhpur	7.43/10	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

- **Singer Identification from songs** *Jan'21-Feb'21*
  Prof. Mayank Vatsa, Professor, CSE Department, IIT Jodhpur.
  The objective is to predict the singer based on the audio sample(song). We have built a deep learning-based model for this task. For performing audio classification, the ImageNet-Pretrained standard deep CNN model is used as this acts as a strong baseline.
- **IoT Energy Modeling** *Bachelor Thesis Project*
  Dr. Sonali Chouhan, Associate Professor, EEE Department, IIT Guwahati.
  A Network Model which contains devices is designed and tested. The model outputs the optimized energy consumption of the devices. Every device consumes different amounts of energy as a whole and this is because every device uses different protocols to access within the network.
- **Gender Classification from Speech**
  Dr. Prithwijit Guha, Assistant Professor, EEE Department, IIT Guwahati. *Oct '17-Nov '17*
  An algorithm is developed and used to classify the gender from the speech. The speech is first processed by windowing and later by MFCC and feature Vectors are generated. We used the K means clustering algorithm to find the mean of the feature vectors. By using the feature vectors we predict the gender.
- **Rangoli laying Robot** *Jan'18-April'18*
  Dr. Harshal B. Nemade, Professor, EEE Department, IIT Guwahati.
  A Robot is designed and engineered which can draw the outlines of the figures. An algorithm in Python is developed in order to convert the Gerber format to the scale which is limited by hardware. Serial communication is used to transfer the data from a laptop to Arduino.
- **Single Camera-based Object Tracking** *March'19-April'19*
  Dr. M. K. Bhuyan, Professor, EEE Department, IIT Guwahati.
  An algorithm is developed and used to track the object. We used the particle filter technique for tracking the object. We used the HSV color model to compute the histogram.

Technical skills

- **Programming languages:** C, C++, Python
- **Libraries:** Pytorch, Tensorflow, Keras
- **Web technologies :** HTML
- **Embedded Boards:** Arduino
- **Miscellaneous:** MATLAB*

** Elementary proficiency*

Key courses are taken

- Artificial Intelligence
- Computer Vision
- Speech Technology
- Data Structures and Practices
- Natural language Processing
- Pattern Recognition and Machine Learning
- Image Processing
- Digital Signal Processing

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.