Parsa Revanth

M.Tech - Artificial Intelligence
Indian Institute of Technology Jodhpur

+91-7664013719
revanth.1@iitj.ac.in
www.linkedin.com/in/rp9/

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech - AI	Indian Institute of Technology, Jodhpur	7.29/10	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

- **IoT Energy Modeling** *Bachelor Thesis Project*
  Dr. Sonali Chouhan, Associate Professor, EEE Department, IIT Guwahati.
  Technologies Used: MATLAB
  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*
  Technologies Used: MATLAB
  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.
  Technologies Used: Python, Arduino, Eagle - PCB design software
  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.
  Technologies Used: OpenCV-Python
  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.
- **Environment Sensing Device** *May'17-June'17*
  Dr. Prithwijit Guha, Assistant Professor, EEE Department, IIT Guwahati.
  Technologies Used: Python, Raspberry Pi
  An intelligent device is designed and engineered using raspberry pi, a camera, GPS Module, earphones with a microphone. when the device captures the image of any place which is already in the database then it speaks out about the details of the image. The device tags the images and stores the image simultaneously.

Technical skills

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

** Elementary proficiency*

Key courses are taken

- Artificial Intelligence*
- Computer Vision
- Speech Technology
- Probability and Random Process
- Pattern Recognition and Machine Learning
- Image Processing
- Data Structures and Algorithms
- Digital Signal Processing

** To be completed in May 2021*

Positions of Responsibility

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

Achievements

- **NTSE 2013:** Qualified for the National level among 50,000 candidates.
- **TS EAMCET 2015**: Secured 2000 rank among 0.25 million candidates.
- **GATE (CS) 2019**: Secured 6125 rank among 96,000 candidates.

Extracurriculars

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