Saurav Vara Prasad Channuri

Physical Address:
\# 112, H-Block, Boys Hostel
Department of Engineering Sciences
Double Majoring in Electrical Engineering
Indian Institute of Technology Hyderabad
Kandi 502285, INDIA

Electronic Address:
ES16BTECH11007@iith.ac.in
Contact No.:+91-9618480733
https://github.com/saurav717

Education

- **Indian Institute of Technology, Hyderabad**   Telangana, India.
  B.Tech. Engineering Sciences and B.Tech in Electrical Engineering   *2016 - present*
    - CGPA : 7.83/10 (upto 5th semester in Electrical Engineering as a second Major)
    - CGPA : 7.20/10 (upto 5th semester in Engineering Sciences)

Projects

- **Bayesian Optimization based search for gravitational waves from compactbinary coalescences**
  Under Dr. Srijith P.K and Dr Shantanu Desai, Assistant Professors at IIT Hyderabad
    - Replacing the Particle Swarm Optimization techniques with other Bayesian approaches (like Monte - Carlo Markov Chain and other bayesian approaches) for better accuracy and reduction of computational complexity for very huge Datasets(Gravitational wave data for celestial objects) in real time.
    - This is an ongoing project

- **Improving Visual Qualities of images generated by GANs**
  under Sumohana Channappaya, associate professor at IIT Hyderabad
    - improving the visual qualities of Generative adversarial Network(GAN) generated images using multi-scale structural similarity index
    - this is an ongoing project

- **Applying Multi layer Neural Network for making voice controlled bot**
  under GVV Sharma
    - applied neural network for voice recognition that trains to an individuals voice and goes forward, backward, left, right and stops based on the user's command
    - implemented this on Rasp-pi

Github Repositories

- *https* : *//github.com/saurav*717*/Machine*$_Learning_$*Algorithms*$_from_$*Scratch*

- *https* : *//github.com/saurav*717*/Algorithms*$_and_$*Data*$_$*Structures*

- *https* : *//github.com/saurav*717*/All*$_things_$*Coding*$_and_$*Theory/tree/master/Multi* − *Threading*$_and_$*Processing*

Relevant Course Work

- Applied Machine Learning (ongoing)
- Bayesian Data Analysis (ongoing)
- Data Mining (ongoing)
- Introduction to AI and ML
- Representation Learning
- Data Structures
- Algorithms
- Deep Learning
- Operating Systems - I
- Computer Architecture
- Principles of programming Languages - I
- Data Analytics
- Probability
- Statistics
- Discrete Structures
- Computer Networks
- Complex Variables
- Database Management - I
- Financial Markets and Institutions

Areas of Interest

- Machine Learning
- Deep Learning
- Statistical Modeling
- Bayesian Data Analysis
- Data Structures and Algorithms

Technical Skills

- **Development:** Python, C , C++, FORTRAN, Eiffel
- **Data Science:** Numpy, Scipy, Matlab and Simulink, Scikit-Learn, Keras
- **Operating Systems:** Linux(ubuntu), Windows
- **Databases:** MySQL
- **Misc:** Github, Arduino, MS office.
- Basic knowledge of Java
- Basic experience with tensorflow

Positions of Responsibility

- **Coordinator of Robotics Club IIT-Hyderabad** 2018 - Present

- **Core Member of Robotics Club IIT-Hyderabad** 2017 - 2018

- **Participated in 6th Inter IIT Tech Meet** Jan 2018
  For problem statement of Warehouse challenge by "Honeywell Laboratories"

- **Participated in 7th Inter IIT Tech Meet** Dec 2018