

Saurav Vara Prasad Channuri

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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 compact binary 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 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 individual's 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/saurav717/Machine_Learning_Algorithms_from_Scratch
- https://github.com/saurav717/Algorithms_and_Data_Structures
- https://github.com/saurav717/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

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