



# AITHU SNEHITH

Roll Number : EE16BTECH11041  
B.Tech - Electrical Engineering  
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## Education

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2016 - Present	B.Tech	Indian Institute of Technology, Hyderabad	9 (Current)
2014-2016	Senior secondary	Board of Intermediate Education, AP	98.3%
2014	Secondary	CBSE board	9.8

## Experience

- LV Prasad Eye Institute, Hyderabad - Summer Intern** May 2018 - July 2018  
Developed a classifier using deep learning to detect and classify ocular surface Images.
- Hexagon Capability Center, Hyderabad - Winter Intern** December 2018  
Developed a Transfer learning model on Pointnet to segment 3D point clouds on custom Datasets in Tensorflow, Python.

## Technical skills

- Programming languages** : C, Python, Matlab
- Python Packages Known** : NumPy, Tensorflow, SciKit-Learn, Keras, Matplotlib, OpenCV.
- Tools & Softwares** : Arduino , Simulink , Xilinx

## Projects

- Lung Cancer Radiomics-Tumor Region Segmentation (IEEE VIP CUP)** August 2018  
*Dr. Sumohana S. Channappayya, Associate Professor, Dept. of EE, IIT Hyderabad.*  
We have segmented and classified the tumor region of the lung slices ( dicom files) using various classical and deep machine learning algorithms.
- Exoplanet Detection** Jan 2018  
*Inter IIT Tech Meet 2018.*  
Classified the Kepler Objects of interests as having exoplanets/not having exoplanet by modelling it as an anomaly detection and solved using variational autoencoders.
- CRC in 5G NR Physical layer** Jan 2018 - April 2018  
*Dr. Kuchi Kiran Kumar, Professor, Dept. of EE, IIT Hyderabad.*  
Came up with a optimized Cyclic Redundancy Check algorithm which is used for error identification in data transmission in 5G New Radio Physical Layer.
- Steganography** June 2017  
Developed a tool using C language which can hide any type of file in any other type of file( eg: image in image hiding)

## Positions of Responsibility

- Science and Technology Secretary , Student Gymkhana - Present
- Core Member of Elektronika, Robotics and Kludge - 2017 - 2018
- Teaching Assistant for Internet of Things and Vector calculus

## Achievements

- Inter IIT Tech Meet 2018** : Secured 7th position among all IITs in Exoplanet Detection.
- Inter IIT Tech Sports 2017** : Represented IIT Hyderabad as a team in Football.
- Achieved Microsoft Azure Award in Engineering the Eye hackathon, LVPEI
- Runner up in Megathon 2017 held at IIIT Hyderabad.
- IIT Joint Entrance Examination 2016** : Secured All India rank 4315 among 1.5 million test takers.

## Key courses taken

- Pattern Recognition Machine Learning
- Advanced Digital Signal Processing
- Internet of Things
- Data Structures
- Digital Modulation Techniques
- Linear Algebra

## Fields of Interests

- Machine Learning and Computer Vision
- Internet Of Things
- Communications and Signal Processing
- Ethical Hacking