

# Pathapati Aravind Ganesh

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🌐 AravindGanesh

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## Education

**2016 - present** B.Tech + Honors in Electrical Engineering  
Indian Institute of Technology Hyderabad  
CGPA: 8.28

**2014 - 2016** XI and XII, AP State Board  
Narayana Jr. College, Nellore  
Percentage: 97.4%  
JEE Advanced AIR: 1453

**2013 - 2014** SSC, AP State Board  
Ratnam High School, Nellore  
GPA: 9.7

## Significant Courses in B.Tech

• Introduction to AI and ML • Representation Learning • Probabilistic Graphical Models • Probability and Random Processes • Digital Signal Processing • Digital Modulation Techniques • Digital Communications • Data Structures • Data Analytics • Information Sciences • Multiple Antenna Systems

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## Areas of Interest

Machine Learning and Deep Learning - Research and Applications on Image Data

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## Work Experience

### Projects

- **2018 - Summer Project:** Face Detection and Recognition and counting the number of persons in a video using openCV, DLib and FaceNet on videos(720p, 24fps) - 98% accuracy on a small test data. under the guidance of Dr.Sumohana, EE faculty, IIT Hyderabad
  - **2018 - Summer Project:** Gait Recognition using HumanposeNN and GaitNN models - 92% accuracy on small custom test dataset - under the guidance of Dr.Sumohana, EE faculty, IIT Hyderabad
  - Team member in IEEE VIP-cup 2018 - Lung tumor segmentation
  - IoT dev at Summer Internship at NemoCare (a startup at IIT Hyderabad)
  - **IV semester project** Far Field Voice Activity Detection using RNN
  - Technology support for soldiers: problem statement in InterIIT tech-meet 2017
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## **Skills**

### ■ **Programming Languages**

- Python - numpy, tensorflow, keras, matplotlib, scipy, scikit-learn, opencv (preference - Python3)
- MATLAB
- C

### ■ **Skills in Current line of work**

- Deep Learning - CNN, GAN, VAE (currently working on GANs), basic idea on RNN and LSTM
- Machine Learning - Classic supervised and unsupervised techniques

### ■ **Miscellaneous**

- Linux - Ubuntu (preferred OS)
  - git, GitHub
  - Raspberry Pi, Arduino, etc.
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## **Extra Curriculars**

- Active member of Elektronika club, Sci-tech Council, IIT Hyderabad
- Participant in Inter-IIT Tech-meet, 2017
- Coordinator of Workshops and Hackathon, ELAN & nvision - 2018
- Active volunteer for NSS, IIT Hyderabad