

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

Areas of Interest

Machine Learning and Deep Learning - Research and Applications

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
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■ 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