Nakka Chakradhar

> Potential intern

Education

2016-2020 (expected) : **BTech, Electrical Engineering**; Indian Institute of Technology (Hyderabad)

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Currently pursuing Bachelor of Technology, third year and Honors specialization
in Electrical Engineering.

Current CGPA – 8.8
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2014-2016 : **Intermediate Education**; FIITJEE Saifabad Campus (Hyderabad)

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Got a fee waiver of 60% after an All India entrance test

Cumulative marks – 981/1000
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2010-2014 : **Primary Education**; Little Flower High School (Hyderabad)

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Consistently scored the highest in my peer group.

CGPA – 9.7
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Work Experience

2018 : **Summer Internship**; NemoCare (CFHE - IIT Hyderabad)

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Took up an internship as an IoT developer. Worked on a module to collect and transmi

Used Arduino IDE and open-source I2C libraries for the same
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Projects

Facial Recognition with OpenCV, DLib and a flavor of FaceNet

Implimented a real-time face recognition algorithm capable of tagging faces in Images as well as videos. Each frame was processed with OpenCV + pre-trained Caffe model to locate faces and then recognize them.

- Achieved 98% accuracy on a small custom made dataset.
- Face recognition on videos was achieved at 24 FPS. The input was a 60FPS capable 720p webcam
- GitHub repo

Gait recognition with Keras

Implimented a gait-recognition deep-net by cascading two networks - HumanPoseNN and GaitNN.

- Achieved an accuracy of 92.8%
- GitHub repo

Lung Tumor Segmentation

Worked on segmentation of lung tumors on DICOM images as a part of IEEE VIP-CUP problem statement (VIP-CUP 2018).

Inter IIT Tech Meet 2017

Worked on the Soldier Support Problem statement offered by DRDO. The problem statement involved 4 sub problem statements

- Gesture Recognition: Made a functional gesture recognition module attached to a glove, capable of capturing any hand movement in 3-D space. This was a part of the Inter-IIT Tech Meet 2017 problem statement offered by DRDO
  - The module could guess 39 out of 43 gestures specified by DRDO, with probability 1
- AD-HOC Localization: Implemented localization of Raspberry PIs in an Ad-hoc network to locate and pin- point any device in the network.
  - The module was capable of tracking nodes in a radius of 100m in closed room environment and around 200m in an outdoor environment, to an accuracy of 15cm.

Smart Meter

Made a working prototype of a smart energy meter capable of sending and receiving data to a server. It is scalable to take up the task of analysing the power consumption of an entire locality as a whole and monitor power theft in the grid.

Technical Experience

Machine Learning and Deep Learning Frameworks

- Tensorflow
- Keras
- Scikit-learn

Programming Languages

- Python (Proficient)
- C (Intermediate)
- Bash
- Latex
- Octave

Related Coursework I've undertaken courses in Introduction to AI and ML, Representation Learning, Data analytics, Random process, Linear Algebra, Digital Modulation Techniques, Information Theory, Digital Signal Processing, IoT and persued mini-projects in the same

Achievements

- Human Languages:
    - English (native speaker)
    - ???
    - This is what a nested list looks like.
- Random tidbit
- Other sort of impressive-sounding thing you did

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