

Rochan Avlur Venkat

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EDUCATION

- **Mahindra Ecole Centrale** Hyderabad, India
Bachelor of Engineering in Computer Science; GPA: 3.66 (9.16/10.0) *Aug. 2017 – Current*
- **AECS Maaruti Magnolia Pre University College** Bangalore, India
High School; GPA: 3.20 (8.0/10.0) *Jun. 2015 – March. 2017*

EXPERIENCE

- **Mahindra Ecole Centrale** Hyderabad, India
Freshman *Aug. 2017 - Current*
 - **sptm - Individual:** Developed and published a python package on PYPI called sptm (Sentence Prediction using Topic Modeling), Experimented and tested various Topic Modeling algorithms (LDA, LSA, NMF & TFIDF) and other vector models such as lda2vec, doc2vec and word2vec, Worked under Anupam Mediratta as a summer intern
 - * *Language: Python*
 - * *Libraries: sklearn, gensim, MALLET, lda2vec, tensorflow, spacy, nltk, Numpy, matplotlib*
 - **CineLog - Team(2):** Developing an Intelligent and Adaptive Framework to enable Multiplexes predict opening day sales of a movie & optimize schedule to maximize profits both real-time and in near-future; designed and developed LSTM Networks, Sentiment Analysis and core RNN
 - * *Language: Python, golang*
 - * *Libraries: Tensorflow, Pandas, Numpy, matplotlib, sklearn, lstm predictor, imdbpie, googleapiclient, request, python-twitter*
 - **Harmonize - Team(3):** Developed a Proof of Concept of a decentralized blockchain based Music Publishing & Sharing Platform; designed and developed core blockchain and back-end services
 - * *Language: golang*
 - * *Libraries: aws-sdk-go, websocket*
 - **oWatcher - Individual:** Developed a Discord bot to display detailed in-game performance statistics of a players in Overwatch by Blizzard Entertainment
 - * *Language: NodeJS*
 - * *Libraries: discord.io, winston, OWAPI*
- **AECS Maaruti Magnolia Pre University College** Bangalore, India
High School Student *Jun. 2015 - March. 2017*
 - **Research in Video Compression Algorithms - Team(2):** Worked alongside Prof. Chandrashekar Vaidhyanathan, Contributions included to algorithm design, implementation and testing; Involved a lossless compression scheme that can be extended to both Near-Lossless and Lossy compression
 - * *Language: C, R, Python*
 - * *Libraries: ffmpeg, Libtiff, bnlearn, gRain*
- **Delhi Public School - East** Bangalore, India
Middle School Student *Jun. 2013 - March. 2015*
 - **A Sensor Based System to effectively track Geriatric Care and Dementia patients:** Was responsible in developing the full stack solution, including micro-controller programming, Android application development and back-end services
 - * *Languages: Python, Java, Processing, MySQL*
 - * *Libraries: NA*

AWARDS & ACHIEVEMENTS

- **2018 - Pragyan Hackathon, Bangalore, India - *Special Mention*:** Showcased an Adaptive Movie Scheduling Framework for Multiplexes using RNN's, LSTM, Sentiment Analysis and Machine Learning
- **2017 - Brave Hackathon, Hyderabad, India - *First Place*:** Showcased a Decentralized Music Publishing and Sharing Platform built over 24 Hours
- **2017 - Intel International Science and Engineering Fair (ISEF), Los Angeles, United States - *Finalist*:** Showcased a research project titled - A Lossless Video Compression Technique Using Bayesian Networks and Entropy Coding
- **2017 - Intel Initiative for Research and Innovation in Science (IRIS), Pune, India - *Grand Award Winner, Finalist*:** Showcased a research project titled - A Lossless Video Compression Technique Using Bayesian Networks and Entropy Coding
- **2015 - Intel Initiative for Research and Innovation in Science (IRIS), Bangalore, India - *Finalist*:** Showcased a research project on an Efficient Thermoelectric Refrigeration System
- **2014 - Open European Championship FIRST Lego League, Mannheim, Germany - *Most Innovative Solution*:** Showcased a research project on the Utilization of T2 Bacteriophages to fight Food Contamination
- **2013 - FIRST Lego League (FLL), Regionals, Bangalore, India - *Best Robot Design*:** Showcased a robot design that was highly efficient while still remaining simplistic
- **2012 - Intel Initiative for Research and Innovation in Science (IRIS), Chandigarh, India - *Finalist*:** Showcased a robot design that was highly efficient while still remaining simplistic

PROGRAMMING SKILLS

- **Languages:** Python, C, R, C++, Golang, Javascript
- **Libraries:** libtiff, ffmpeg, ImageMagick, gensim, MALLET, TensorFlow, sklearn, Numpy, Pandas, Matplotlib2
- **Technologies:** MagicLantern, Apache, DynamoDB
- **Platforms:** AWS, GCP, Linux(x86, x86_64), Raspberry Pi, ARM Cortex-A53, Arduino, Android