

Naveen Venkat

naveenvenkat.com | github.com/nmakes
nav.naveenvenkat@gmail.com

EDUCATION

BITS PILANI

B.E.(HONS.) COMPUTER SCIENCE
Expected May 2019 | Pilani, India
CGPA: 8.067 / 10.0

MOUNT CARMEL SCHOOL

CBSE CLASS XII
Grad. 2014 | New Delhi, India
AISSCE: 92.6%

LINKS

github:// nmakes
LinkedIn:// serverprocessor
twitter:// serverprocessor

COURSEWORK

ELECTIVES COMPLETED

Data Mining
Artificial Intelligence
Linguistics

ELECTIVES ONGOING

Neural Networks & Fuzzy Logic
Pattern Recognition

SKILLS

PROGRAMMING

Fluent:
C/C++ • Python • Java
Familiar:
Android • Verilog • x86 assembly
MySQL • Visual Basic
HTML • CSS

CREATIVE ARTS

Graphic Designing (Adobe Illustrator)
Carnatic Flute

MISC

I like to logically derive explanations from first principles. I don't like to quit before trying. I love music of all forms.

INTERNSHIP

CSIR - CEERI, CHENNAI | SUMMER RESEARCH INTERN

May 2017 - Jul 2017 | Chennai, India

- Designed and developed an Arduino based wearable device to monitor Heart Rate variability and detect fatigue.
- Developed an android app to interface with the wearable device via Bluetooth and display statistics in real-time.
- The app had an efficient buffer and a robust multi-threaded architecture to achieve asynchronous data transfer.

RESEARCH EXPERIENCE

BITS PILANI | ON-GOING STUDY PROJECT

Jan 2018 - Present | Mentor: Dr. Vandana Agarwal

- Studying the application of Machine Learning techniques to identify patterns in EEG Signals for Brain Computer Interfaces.
- Achieved higher accuracy than benchmarks using DNN on Confusion Dataset.

CSIR - CEERI, PILANI | UNDERGRADUATE RESEARCHER

Aug 2017 - Dec 2017 | Mentor: Dr. Dhiraj Sangwan

- Worked on an automated Baggage Inspection system using computer vision.
- Explored Bag of Words, Sparse KNN, and CNN (AlexNet) on the GDXray dataset.

PROJECTS

AIBOT | SOLVING REAL LIFE PROBLEMS THROUGH AI

Aug 2017 - Present | github.com/nmakes/aibot

- Connect 4 Game Playing Bot - using minimax algorithm with alpha-beta pruning.
- Bayesian Network simulation - probabilistic inference in a real world scenario.

PRICE PREDICTION | TO IMPROVE SALES OF A LATE NIGHT RESTAURANT

Aug 2017 - Dec 2017 | github.com/nmakes/ANC-data-mining

- Implemented a dynamic pricing scheme using association rule mining to maximize profit with minimum cost.
- Suggested combo offers of best selling items with less rated items to improve the sales of less rated items.

AWARDS & ACHIEVEMENTS

2015	rank 2420 in over 1M	IIT JEE (Advanced) 2015
2014	Subject Topper, Physics	Mount Carmel School
2013	17th State rank	International Olympiad of English Language
2013	99.475 %ile	Qualitative Reasoning, PSA (CBSE)
2012	Outstanding Entry	Oracle ThinkQuest
2012	Runner Up	Programming, Dynamix (Ramjas Foundation)

POSITIONS HELD

2017 - present	Design Chair	ACM Student chapter, BITS Pilani
2016 - 2017	CDO	Conquest 2017, India
2012 - 2014	Programming Head	SoftSol, Mount Carmel School