Hemanth Ram

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EDUCATION

IIT Madras,
Electrical Engineering, Dual Degree
2018 – present
CGPA - **9.12**

Jawahar Higher Secondary School, *Class XII*
2017 – 2018
97.8 % - CBSE Board

Achariya Bala Siksha Mandir,
Class X
2015 – 2016
10 CGPA - CBSE Board

COMPETITVE PROGRAMMING

Codechef
- 2114 (5-star) (highest rating) ⬀

Codeforces
- 1776 (expert) (highest rating) ⬀

COURSES

Machine Learning,
by Andrew Ng (Coursera)

Algorithms Specialization,
Stanford University (Coursera)

Convolutional Neural Networks,
deeplearning.ai (Coursera)

Numerical Methods,
Undergraduate course (EE1103)

Microprocessor Theory+Lab,
Undergraduate course (EE2016)

Digital Systems & Lab,
Undergraduate course (EE2001)

PROGRAMMING LANGUAGES

- C/C++
- Python (Numpy, TensorFlow, Matplotlib, OpenCV, Pandas)
- Verilog HDL
- JavaScript (React)
- TypeScript (type-graphql)
- HTML, CSS

EXTRA CURRICULARS

- Part of the **IITM's Ultimate Frisbee team** which represented IITM in the NCUC 2019 and Sectionals 2019.

EXPERIENCE

Machine Learning Intern, *Integra*
November 2018 – December 2018
- Built an ML based movie recommender system using content based filtering method (used TensorFlow, Numpy, Pandas).
- Tried to implement the same model in their education portal to recommend courses for the employees working there.

Super Coordinator, *WebOps Team, Shaastra 2021*
March 2020 – present
- WebOps team is responsible for the development and maintenance of all websites related to Shaastra (- the annual tech-fest of IIT Madras).
- We use React for front-end and GraphQL, Type-ORM with PostgreSQL for back-end.

Deputy Placement Coordinator, *Placement Team, IIT Madras*
April 2019 – April 2020
- Managed and coordinated with various companies during the Phase-1 of the Placement Season at IIT Madras, and ensured that the process went smoothly and fairly for the students also.

Coordinator, *Electronics Club, CFI, IIT Madras*
April 2019 – April 2020
- Orchestrated various introductory sessions for the freshers which included making a Bluetooth controlled bot using basic *arduino* programming, IOT using ESP8266, using RPi and more.
- Was also part of organizing the CFI Open House, which is the annual event of CFI where all the projects of CFI are exhibited to the public.

PROJECTS

Image Classification, *Hand Sign classification* ⬀
2018
- Built a hand gesture detector on the SIGNS dataset provided by *coursera* as part of the *Convolutional Neural Networks* course.
- Used *TensorFlow* for building the CNN to classify hand gestures into six categories each representing a number from 0-5.

Cricket Highlights Detector ⬀
- Used basic *Template Matching* technique in OpenCV to keep track of the score in a cricket match from the score board and playing the highlights whenever one occurs.

Controller model for Washing Machine, *EE2016 Course Project* ⬀
November 2019 – December 2019
- Modeled the UI and the systems part of a washing machine using *AVR* micro-controller and *Embedded C*.

ACHIEVEMENTS

AIR 614, *JEE Mains 2018*

AIR 901, *JEE Advanced 2018*

World Records
Longest Cartoon Strip by Individual ⬀ , Largest Kirigami Mosaic ⬀