

# KANAKALA GANESH CHANDAN

Undergraduate Research student at IIIT-Hyderabad

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## EXPERIENCE

### MLOps

#### Differential

Ongoing Hyderabad, India

- Worked part-time on Building End-to-end ML pipelines and deploying.
- Primary work was in working with SOTA Diffusion Models, involved in core ML research and Game AI technologies.

### Software Development Intern

#### The Rainwater Project

Monsoon 2020 Hyderabad, India

- Built an interactive, responsive MERN (MongoDB, ExpressJS, React, Node.js) stack based web app with a team, that recommends actionable tasks to Recharge, Reuse and Reduce water usage towards a water positive community.

### Machine Learning Research Undergraduate

#### CCNSB / Devalab

May 2021 - ongoing IIIT-Hyderabad, India

- Worked on identifying latent biases induced in the bench-marked machine learning methods in binding Affinity prediction on Protein-ligand data-sets and propose measures for controlling the same.

### Teaching Assistant

#### iHub-Data / ml4chem

March 2022 - May 2022 Hyderabad, India

- Worked as a Teaching assistant for the course ML4Chem (Machine learning for chemistry) offered by iHub-Data in collaboration with IIIT-Hyderabad.

## PROJECTS

### BEDS

- Brain Encoding Decoding from speech data using Transformers. In this project we built a Machine learning model based on transformer architecture to encode the brain fMRI images to predict speech.

### Web Applications

- BetterSplit**: Built as a part of course project with a few other teammates. The Web App was built using Flask framework. The Web App uses the concepts of decentralized technology and integrates a simple block-chain technology with our cryptocurrency to reduce the number of transactions between the peers.
- JobsHub**: Created a user-friendly, scaleable and production-ready web application built on the MERN stack for a job search portal meant to be used by applicants and employers to discover jobs and simplify the recruitment process.

### Hush

- Built A fully functional user-defined interactive Shell written in C using Linux system calls. The shell handles all basic functionalities such as creating processes, basic shell commands, handles background and foreground processes and many more special utility functions along with signal handling.

### Few Side Projects

- IntraDayTrader**: Built an LSTM model which learns the trends in stock prices for intra-day and inter-day trading.
- SimCNNDA**- Implemented a ML model proposed in a research paper in pytorch for my research project.
- Multi-digit-recognition**: Built a simple model that predicts the sum of all numbers present in an image.

## PUBLICATIONS

Latent Biases in Machine learning methods for Binding Affinity prediction  
*Accepted.*

## ACHIEVEMENTS



### KVPY SA

All India Rank : 297

Qualified for KVPY Olympiad exam twice (2017, 2018). The best rank out of the two attempts is AIR 297.



### JEE ADVANCE

All India Rank : 7190



### 12th Board CBSE

94.6 Percent



### 10th Board CBSE

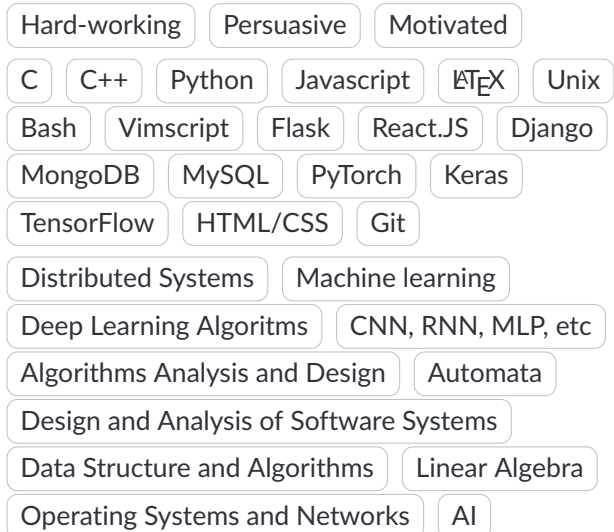
10 CGPA



### Current CGPA

8.75

## STRENGTHS / SKILLS



English

Hindi

Telugu



## EDUCATION

B. Tech in Computer Science and MS in Computational Natural Sciences

International Institute of Information Technology - Hyderabad

Aug 2019 - Ongoing Hyderabad

High School

FIITJEE

April 2017 - 2019 BBSR