

KANAKALA GANESH CHANDAN

3rd Year Undergraduate student at IIIT-Hyderabad

✉ k.ganesh.chandan@gmail.com
📧 kganeshchandan

☎ +91 7735807523
📞 0000-0002-4469-1857

🌐 kganeshchandan.github.io

📄 kganeshchandan



EXPERIENCE

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.
- The web app records the water consumption at single/family/community levels and provides a detailed analysis and recommends actions for a healthy water utility.

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.
- In this work we bench-marked several SOTA (State-Of-The-Art) machine learning methods on the CCV (clustered cross validation splits) we created and highlighted biases present and proposed a means to control such biases.

Teaching Assistant

iHub-Data / ml4chem

📅 March 2022 - May 2022

📍 Hyderabad, India

- Working as a Teaching assistant for the course ML4Chem (Machine learning for chemistry) offered by iHub-Data in collaboration with IIIT-Hyderabad, with an emphasis on machine learning for drug discovery.

PROJECTS

Finance App

- Built a Finance app as a part of course project with a few other team mates.
 - 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 along with the set of algorithms devised to reduce the number of transactions between the peers.

JobsHub

- Created a user-friendly, scale-able 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 overall process of recruitment.

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.

Intra-day Trader

- Built an LSTM model which learns the trends in stock prices for intra-day and inter-day trading.

PUBLICATIONS

The research article titled "Latent Biases in Machine learning methods for Binding Affinity prediction", I have worked on is under review.

CURRENT WORK

My current research lies in the domain of Machine learning in Drug Discovery.

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

Hard-working

Persuasive

Motivated

C

C++

Python

Javascript

LaTeX

Unix

Bash

Vimscript

Flask

React.JS

Django

MongoDB

MySQL

PyTorch

Keras

TensorFlow

HTML/CSS

Git

Distributed Systems

Machine learning

Deep Learning Algorithms

CNN, RNN, MLP, etc

Algorithms Analysis and Design

Automata

Design and Analysis of Software Systems

Data Structure and Algorithms

Linear Algebra

Operating Systems and Networks

AI

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