KANAKALA GANESH CHANDAN

3rd Year Undergraduate student at IIIT-Hyderabad

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EXPERIENCE

Software Development Intern

The Rainwater Project

Monsoon 2020 — Hyderabad, India

- Built an interactive, responsive MERN (MongoDB, EspressJS, 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 - ongoing — 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.

Games

- **BlockBreakerVII :** A Game completely built upon OOPs principles and print statements inspired from the popular game Atari Break out.

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 ADV
All India Rank : 7190

12th Board CBSE
94.6 Percent

10th Board CBSE
10 CGPA

Current CGPA
8.73

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 Algoritms | 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 Techonology - Hyderabad

Aug 2019 – Ongoing — Hyderabad

High School

FIITJEE

April 2017 – 2019 — BBSR

- **SpaceOdyssey :** A simple obstacle dodging game in space theme built in python using PyGame library.

PUBLICATIONS

The research article I have worked on is under review currently.