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Arihanth Srikar Tadanki

Github
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EDUCATION

Bachelor of Technology (Honours), Computer Science, International Institute of Information Technology Hyderabad

GPA: 9.12/10.00

Aug 2019 — Present

WORK EXPERIENCE

Undergrad Researcher

Dr. Deva Priyakumar

May 2021 — Present

CCNSB, IIIT Hyderabad

- Working on application of **Deep Learning** in **Computational Chemistry**.
- Working on binding-pose prediction of protein-ligand complexes using deep neural networks.

Machine Learning Development

IBM

Aug 2021 — Nov 2021

- Under the GRM program, we designed a solution to effectively use our vast human resource in mentor the future generation.
- Implemented **Hate-Speech recognition** and **mentor-mentee allocation system** using **KNNs**.

Software Development Intern

Hackstrap

Jan 2021 — Apr 2021

Hyderabad

- Built a web scraper model using **scrapy** to retrieve data from several websites.
- Implemented a name-entity recognition **NER** model using **NLTK** module.

PROJECTS

Amai Masuku

Oct 2021

- A system that detects faces with and without masks, tracks them and gives statistics.
- *Technologies*: Python, YOLOV4, OpenCV, Darknet.

Minerva

May 2021

- A discord bot which identifies depressive behaviour and actively intervenes by engaging with the user in a voice conversation, driven by a Deep Neural Network performing sentimental analysis on the messages with an accuracy of 85%.
- *Technologies*: Python, Node.js, GraphQL, Azure Cognitive SDK, Google Cloud Services, Tensorflow, DialogFlow.

OS

Sept 2021 — Nov 2021

- **ASH** - POSIX shell written in C. Implemented *ls*, *cd*, *pwd* from scratch and advanced functionalities such as *piping*, *redirection*, and *signal handling*.
- **AV6** - modified **XV6** to include additional functionalities. Implemented various CPU schedulers and tested their performances.

Balls of Fury

Feb 2021

- A recreation of the classic brick breaker game coded in python using only numpy and colorama that runs on the terminal.
- *Technologies*: Python, NumPy.

VOLUNTEER EXPERIENCE

Teaching Assistant - Data Foundation Systems, IIIT Hyderabad

Jan 2022 — Present

- **Mentored several teams** in building Data ETL systems where several projects are integrated to form a system.

AWARDS & HONORS

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|------|--|
| 2020 | Deans List 2 - Academic award for scoring the second highest in my batch. |
| 2021 | Merit List - Academic award for being in the top 30 percentile of my batch. |
| 2021 | Megathon - Placed third in Hyderabad's largest student-run Hackathon. |
| 2021 | Hackathon - Placed in the top 10 best projects in <u>HackerEarth's Hack On 2.0</u> among 8000+ participants. |

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Bash, SQL
Web Development: React, JavaScript, TypeScript, HTML/CSS
Technologies: Git, VMD, Gaussian, GCP, Azure, Docker, \LaTeX , MongoDB