Arihanth Srikar Tadanki

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Github
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Education

Bachelor of Technology (Honours), Computer Science, International Institute of Information Technology Hyderabad
GPA: 9.02/10.00 **Aug 2019 — Present**

High School Diploma, Science, Deeksha Centre for Learning Bangalore
11th Percentage: 94.0%, 12th Percentage: 89.7% **May 2017 — May 2017**

Junior School, Delhi Public School Bangalore South
GPA: 10.00/10.00 **June 2007 — Apr 2017**

Work Experience

Software Development Intern **Jan 2021 — Apr 2021**
Hackstrap Hyderabad

- Built a web scraper model using **scrapy** to retrieve data from several websites.
- Implemented a name-entity recorgnition **NER** model using **NLTK** module.
- Designed the UI, handled the back end using **MongoDB** and used **docker** containers.
- Followed **agile** methodology and created several **UML** and **sequential** diagrams.

Academic Projects

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.

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.

Social Website **Jan 2021**

- A dual account website that can account for two different profiles where one can upload their resumes and others can view the information.
- *Technologies:* JavaScript, MongoDB, Express, React, Node.

Phylogenetic Trees **Sep 2020**

- Constructed Phylogenetic Trees given the nucleotide sequences using UPGMA and custom distance calculation methods without the use of any bioInformatic libraries in python.
- *Technologies:* Python, NumPy.

Binding-Pose Optimisation **Jun 2021 — Present**

- Working on binding-pose optimization of protein-ligand complexes using deep neural networks.
- We aim to use Graph Neural Networks in place of Convolution Neural Networks that are used in models like GNINA and AtomNet to try and reduce the computational time while achieving similar accuracy.
- *Technologies:* PyTorch, GNN, GCN, Attention Networks.

Awards & Honors

2020 Deans List 2 - Academic award for scoring the second higher in my batch.
2021 Hackathon - Placed in the top 10 best projects in HackerEarth's Hack On 2.0 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