SAI HARSH TONDOMKER

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EXPERIENCE

Associate Data Scientist, XPO Logistics

July 2020 – Present Pune

- Designed computationally efficient Informatica mapping model to transform data from Netezza to Google Cloud.
- Analyzing data using Google big query to build a dynamic pricing model.

Student Developer, Google Summer of Code

May 2018 – Aug 2018 Work From Home

- Added triconnected decomposition, ear decomposition and closeness centrality functions to graph library of SageMath(an open source mathematics software).
- Extending graph library by adding SPQR-tree. These modules are used in several graph problems such as Hamiltonian Cycle, travelling salesman problem etc. Project link

Product Development Intern, PhenomPeople

Feb 2020 – July 2020 Hyderabad

- Working on Neo4j Queries to design an profile recommendation engine
- Applying graph algorithms to real world problems

Product & Research Development Intern, AindraLabs

March 2019 – August 2019 Bengaluru

- Built a tool which takes input as a movie(.mp4 file) and identifies all unique faces in it, followed by clustering them in folders, Achieved 90+ % accuracy on the dataset of 100 movies
- Enumerating customer visits to a mall, using facenet and Chinese clustering.

Indian School of Business, Research Intern

April 2019 – August 2020 Hyderabad

- Study on the effect on small stores if a popular store is shut down in a mall.
- Experimental entrepreneurship course design analysing various product market fit hypothesis and practicality aspects.

TECHNICAL SKILLS

- Operating System, C++, Python, Java, MATLAB
- Software & Tools QGIS, LaTeX, web2py, IPE.

EDUCATION

MS by Research in Computer Science
IIIT Hyderabad
2017 – 2020 CGPA: 7.63

B.Tech. (Hons. in Computer Science)
IIIT Sri City Research Dean's List
2013 – 2017 CGPA: 7.97

PROJECTS

Graph: Dynamic Centrality Measures

- Graph reduction techniques to optimize running time for algorithms used to calculate centrality values for nodes in a graph.
- Achieved 10x speedup against current best parallel algorithm.

OS Project: Secure File Sharing Protocol

- Built using Java RMI interface to connect with clients to allow encrypted sharing files using the Diffie-Hellman key exchange algorithm.
- Command to Share the list of files available in the server, download/upload a file in server.

Graph Project: Efficient Ear Decomposition Algorithm

- Authored an efficient algorithm for Ear Decomposition (to find the Biconnectivity of a graph.) an achieved **2X** speedup.

Data Analysis: Crowd Steering (MIT Media Labs)

- Built a real time framework built upon python and Amazon EC2 to do crowd analytics and predict flow of crowd using Heat-map.
- This project was completely funded and supported by MIT Labs.

OS Project: Application for Stock Market

- To enable easy access to Shanghai Stock exchange by establishing an efficient connection based on CTP Protocol. (C++)

CO-CURRICULAR ACTIVITIES

- Honor Code Certificate from **MITx** for successfully completing a course on *"Introduction to Computer Programming Using Python"*.
- HackerEarth Campus Ambassador and selected in Internshala Student Partner 6.0.