Likhitha Surapaneni

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EDUCATION

International Institute of Information Technology, Bangalore *July 2019*

Degree	Integrated Masters in Information Technology
Major	Data Science
CGPA	3.31/4

TECHNICAL SKILLS/TOOLS

AngularJS, AWS, Cromwell, Cypher, Docker, Django, ElasticSearch, Flask, FastAPI, GraphQL, Hail, Hasura, Java, Keras, Kibana, Kubernetes, Luigi, Matlab, MySQL, Neo4j, OpenWDL, PHESANT, Postgres, Python, Pytorch, R, Singularity, Slurm, Spark

WORK EXPERIENCE

Aganitha Cognitive Solutions
Data Scientist *Sep 2020 - Ongoing*

- Developing an application to manage high-throughput sequencing reads and analysis runs. As a part of this, developed a pipeline agnostic tool to analyze the reads and provide visualizations to inspect gene expression in HPC cluster on cloud platforms.

- Developing a wrapper tool on top of Hail and Luigi for easier cohort analysis

Jr. Data Scientist 2 *Aug 2019 - Aug 2020*

- Set up an industrial-strength ETL pipeline to load and transform large biobank datasets (UKBiobank, VEP) and visualize phenotype and variant data sets, facilitating cohort selection for rare disease studies.

- Built cognitive units that extract, process and collate information from public data sources to facilitate automatic dossier creation for pharmaceutical organisations

- Brief exploration of establishing the relationship between ICD10, HPO, SNOMED-CT and LOINC

Summer intern in Accenture labs *May - July 2018*

- Multi-object Style Transfer: Worked with segmentation and image processing techniques to enhance style transfer on indoor objects

PROJECTS

Indoor Mapping and Guiding *Jan - July 2019*
Course: Master's Thesis *Guide: Prof. G S Raghavan*
Using indoor house images captured by a Matterport camera, deveoping a semantic map and with the help of this map, communicating natural language instructions to the user

Improving Clinical Decision Making through Visual Question Answering *Apr 2018*
Course: Advanced Machine Pereception *Guide: Prof. Dinesh Babu*
Given an image and a question, developed a system that answers the question according to the image

Distributed Stochastic Gradient Descent *Jan - Apr 2018*
Course: Distributed Computing *Guide: Prof. Shrisha Rao*
Explored algorithms for parallel stochastic gradient descent and compare results by running neural networks on multiple datasets

Brain Tumor Segmentation and Classification *December 2017*
Course: Machine Learning *Guide: Prof. G S Raghavan*
Identified tumor region in a brain image by segmenting using watershed algorithm and then classifying as benign or malignant

ACHIEVEMENTS & LEADERSHIP

2019	TA for Machine Learning course in Tata Consultancy Services
2018	Selected into Amazon training programme
2016 - 2017	I worked as Student Activity Coordinator(SAC).
2017	2nd runner up in IIITB-Hackmania series, Powered by NASSCOM.
2016	Won Basketball competition in Spandan(college sports fest).
2015-2019	I am one of the coordinators of AIKYAM, a social club in our college.