SANATH NARASIMHAN

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Qualifications

- *Master of Computer Science (currently perusing), University of Texas at Arlington - **3.667 GPA (First two Semesters)***
- *Bachelor of Engineering in Information Science (2013-2017), Reva Institute of Technology and Management, Bangalore Visvesvaraya Technological University – 69.34%*
- Interned as Junior Data Scientist at Enquero Global LLP, Bangalore from September 2017 to June 2018.
- Currently pursuing my Thesis under Dr. Deokgun Park in Human Data Interaction Lab at University of Texas at Arlington, Computer Science department. (since May 2019)

Projects

- ✓ **Client name clustering (At Enquero Global LLP)**
  - A Machine Learning based algorithm to resolve a dataset of client names for an Elastic search engine. The dataset is subjected to unsupervised learning with a hybrid clustering with 57% accuracy.
- ✓ **SaaS Churn analytics (At Enquero Global LLP)**
  - Data analysis on a dataset of Subscription data of various clients to predict the likelihood of churn. The dataset is sampled for previous churn trends and finding the key attributes by Principle Compound Analysis to define churn causation. This is then applied on recent clients for analysis.
- ✓ **Data Quality System administration (DQDNA) (At Enquero Global LLP)**
  - Maintaining Data quality related dashboards from a QlikView server instance. The data is retrieved from a set of **HDFS** server instances weekly and the dashboards are updated. The incoming data is subjected to a set of steps to ensure that there is no inconsistency and the trends are observed by various metrics that are predefined.
- ✓ **Pill-em-all: (Masters Project)**
  - A medication review app developed in python using flask for the webapp development. The system is built on dataset available on Kaggle, a set of user reviews for medications with their symptoms with condition the medicine is usually prescribed for.
  - The search engine was implemented using inverted index, giving an average retrieval time of 0.05 seconds. The classifier used is based on Naïve Bayes algorithm with hyper-parameter tuning of the smoothing factor, achieved on an average 60% accuracy across all classes. A content-based recommender system was implemented based on the given user ratings.

Thesis and lab work

- Building virtual environment for incubation of AI. (Thesis)
  - ➢ My Thesis work involves integrating the Pupil Labs Pupil Core eye tracker with our currently developing Unity3D environment to retrieve infant eye gaze data and map it to virtual objects within the environment. The environment here is built using motion capture data to simulate an interaction between a mother avatar, an infant avatar and some toys that the infant can play with.
  - ➢ Studying the Hierarchical Temporal Memory Theory developed by Jeff Hawkins to understand the working of the brain and implement it to create better performing neural networks approach. The main area of interest is Artificial General intelligence.

Skills and Interests

Technical:

- ➢ *Adept at Linux Based Operating Systems.*
- ➢ *Know the Rudimentary concepts of Artificial Intelligence and Ethical hacking Computer security.*
- ➢ *In-depth knowledge on the basics of Design programming languages like: Python, R, C, C++, Core JAVA, SQL, C#, HTML, HDFS, MySQL and Shell scripting.*
- ➢ *Familiar with Unity3D and Blender*

Interests**:**

Artificial General Intelligence, Human Computer Interaction, Natural Language processing, Image processing and Computer Vision.

Accomplishments and Extra curriculars

Courses completed:

- *Introduction to Machine Learning by Andrew ng on Coursera,*
- *The Python Mega Course on Udemy*
- *Data Science Certification Training - R Programming by Simplilearn*

Others:

- Secured all India rank 11 in the IEO 2016
- Won best use of Algolia API at the HackUTA event, October 5,6 – 2018
- Awarded the “Lone Star” Non-Resident Tuition Waiver scholarship for the Fall 2018, Spring 2019 and Summer 2019 terms By Department of Computer Science at University of Texas At Arlington
- Nominated for Non-Residential tuition waiver Scholarship for the Fall 2019, Spring 2020 and Summer 2020 terms By Department of Computer Science at University of Texas At Arlington