Arjun Naga Siddappa

as15840@nyu.edu|| (718)-213-8854 || linkedin.com/in/arjunns || https://github.com/ansidd

EDUCATION

New York University, Master of Science, Computer Science
GPA: 3.6 Ongoing
Relevant Coursework: Deep Learning, Machine Learning, Computer Vision, Foundations of Data Science, Visualization for Machine Learning, Information Visualization

Ramaiah Institute of Technology, B.Eng. Computer Science and Engineering
GPA: 8.97 May 2019
Relevant Coursework: Deep Learning, Machine Learning, Data Science in R, Python Programming, Cloud Computing

TECHNICAL SKILLS

Programming Languages: Python, Javascript, Java, C, C++, SQL
Technologies: PyTorch, AWS, sklearn, Git, D3.js, Agile, IBM Cloud, PostgreSQL

PROFESSIONAL EXPERIENCE

Cognitive Data Scientist, **IBM** Jul 2019 - Jul 2021
- Used Deep Neural Networks to perform **emotion recognition** on audio data
- Led a team of three in developing **ETL Pipeline** in Python and deployed it on IBM Cloud
- Created a Knowledge Graph using neo4j and **Natural Language Processing** Techniques from unstructured text data

Machine Learning Intern, **Suprath Technologies** Jul 2017 - Aug 2017
- Implemented state of the art NLP model as PyTorch counterpart for the **Information Retrieval System**
- Researched on and successfully improved accuracy upto 76% of Bi-LSTM model to retrieve answers to questions

Teaching Assistant, **New York University** Sep 2021 - May 2022
- For two courses **Introduction to Data Science** and **Introduction to Python Programming** for undergrad students
- Conducted **Lab and Office Hours**. Reviewed topics and cleared students' doubts.

PROJECTS

Reverse Visual Search 2022
- **Led a team of three** to develop an search system using text and image search in a video database
- **Investigated** different **dual encoder models** as the backbone of the system and determined the best one
- Set up and orchestrated the **deployment** of the system to AWS

Robomasters NYU Ultraviolets Team 2022
- **Refactored** the entire CV subsystem code base to be object oriented and follow coding standards
- Implemented **robot detection** pipeline using YOLOv5 and deployed it on Jetson Nano
- **Designed and implemented fiducials detection** in the game arena using computer vision techniques

Identification and Analysis of Biomarkers and Prediction of Drug Response in Breast Cancer (Published Paper) 2019
- Identified biomarkers from gene expression data using **Clustering Algorithms**
- Used different Machine Learning algorithms to **predict drug response** in cancer patients

Olympics - A Small Study - Information Visualization using D3.js 2021
- Designed and developed a number of **custom info-rich graphs** from scratch using D3.js
- View this at: https://observablehq.com/@satsushi0/the-olympic-games-a-small-study

Multi-Objective Geographic Routing Protocol (Published in IEEE) 2018
- Studied and **implemented** a geographic routing protocol in NS3
- **Modified the algorithm** with improvements and performed simulations of the same in NS3
- Published the work at 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology

PUBLICATIONS

Identification and Analysis of Biomarkers and Prediction of Drug Response in Breast Cancer
(In the process of being published in 2019 3rd IEEE International Conference on RTEICT. View this at: https://drive.google.com/file/d/1vlRRn8b5dZJz8sZEktG1pJVCVVymyCyD/view?usp=sharing)
Multi-Objective Geographic Routing Protocol
(Published in 2018 3rd IEEE International Conference on RTEICT, ISBN: 978-1-5386-2440-1)
View this at: https://ieeexplore.ieee.org/document/9012525