SIRI RAAVI

MACHINE LEARNING, DATA SCIENCE AND ANALYTICS

CONTACT

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EDUCATION

UNIVERSITY OF HOUSTON [HOUSTON, TX]

Master of Science in Computer Systems Engineering

May 2018 GPA: 3.76/4.00

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY [HYDERABAD, INDIA]

Bachelor of Technology in Electrical and Electronics Engineering

May 2014 GPA: 3.67/4.00

TECHNICAL SKILLS

- Machine Learning, LSTM, CNN, RNN, Sci-kit learn, NLTK, Spark MLlib, Numpy, Scipy, Pandas, Matplotlib
- Deep learning frameworks Tensorflow, Theano, Keras, Lasagne
- Software Engineering
- Data Visualization
- **Programming languages** Python, Java, Linux, SQL, C/C++, MATLAB, REXX, JCL, DB2, System Verilog
- **Tools and Utilities** Git, SVN, Weka, AWS, Azure, VPN, SSH, TSO DB2, TSO BMC, HPSM, Excel
- **IDE/Editors** PyCharm, IntelliJ, Vim, Visual Studio, Eclipse, NetBeans, Android Studio

AWARDS

Granted **SPOT award** for outstanding contributions and innovations while working at NTT data.

EXPERIENCE

JAN 2017 – Present

Research Assistant, University of Houston | HULA Lab

- Worked **on "Investigating Neural Networks with Memory capacity to classify images using small number of samples"** as a part of my Master Thesis.
- Training **Memory Augmented neural network** on MNIST data with few samples in **One vs All approach** and achieved **96.2%** accuracy even with the presence of label noise.
- Actively collaborating with other HULA members for effective brainstorming strategies.

JUL 2014 – JUL 2016

Application Software Developer | NTT DATA GDS, India

- Creating, maintaining, granting access to users and ensuring **optimal performance of databases** and their associated objects by executing various batch jobs and utilities.
- Aiding in major implementations like **performing conversions** and **production issuances.**
- Designed a test environment for trouble shooting DB2, IMS transactions while performing testing including both application and host related.
- Built an internal tool to execute tasks which **reduced the amount of time spent** on the task by **80%** and **increased the accuracy by 74%.**

PROJECTS

Radiologist Gaze

- Collaborated with **radiologists** from M.D. Anderson Cancer Center for **radiologist gaze** pattern analysis to develop and train new radiologists. **Annotated** the Chest X-ray images and identified various patterns.

Implementation of ECSSGAN

- Designed a **generative adversarial** machine learning model based on the **SALGAN** model and it was used to detect the objects generate their **saliency maps,** especially of the images that included depth information of extended complexity scenes using machine learning framework **theano** and **python**.

Machine learning using cloud services

- Evaluating the cloud provided by the three elite **cloud service** providers; Amazon Web Services (**AWS**), Google Cloud Platform (**GCP**) and Microsoft **Azure** for their machine learning services.

Gender Classification from blog text

- Built a toolbox to identify the **gender** of the author of the text. The **tool box** was evaluated to predict the gender with **82% accurate results.**