Rohan Singh Rajput

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Machine Learning enthusiastic currently pursuing Master's in Computer Engineering from University of Central Florida, graduating at May 2017.

KEY SKILLS

Programming Skills: Python (2.7), SQL, MatLab, Java, R, D3.js.

Application Packages: Anaconda, Octave, Eclipse IDE, Notepad++, MySQL database, Git, MS Office, WordPress.

Machine Learning: TensorFlow, Scikit Learn, Cuda, Apache Hadoop, Spark.

COURSES

University of Central Florida

- Natural Language Processing
- Genetic Algorithm
- Autonomous Robotics
- Optimal estimation of Control

Coursera

- Machine Learning - Andrew Ng
- Neural Networks - Geoffrey Hilton
- Matlab - Vanderbilt University
- Python - University of Michigan

edX

- Artificial Intelligence – UC Berkley
- Java – Hong Kong University
- Probability and Statistics - MIT

VOLUNTEERING

- Technical Volunteer at Stanford machine learning conference.
- Technical Volunteer at BigData LA.
- Mentor at Coursera on Matlab course.
- Mentor at Knight Hack event.

PROJECTS

SEMI-SUPERVISED DISTRIBUTED LEARNING ON HPC

Implementation of large scale Deep Learning machine learning algorithms on High Performance Supercomputer(Stokes) and Large scale GPU cluster(Newton) on large scale data analysis using distributed environment. The project target large scale of data with Semi-supervised learning approach to create huge label data set for Supervised learning.

Technologies used: Python, Jupyter-Anaconda package (Scipy, numpy, pandas, ggplot), R (for statistical analysis and D3.js visualization), Google Tensroflow deep learning framework, Apache Spark 2.0 and Hadoop HDFS system, Cloud integration on Amazon Web Services(AWS) with EC2 integration for training large data set on cluster.

NOVELTY SEARCH IN DYNAMIC ENVIRONMENT

Performed unsupervised learning using K-means clustering to introduce dynamical search space for Genetic Programming. Used Neural evolution concept by Dr. Kenneth Stanley.

Technologies used: Java, Processing visualization software, Matlab.

TEX RANK ALGORITHMS USING TENSORFLOW FOR TEXT SUMMARIZATION

Created Machine Learning algorithm for Natural Language Processing Application of test summarization using Tex Rank algorithm. Used next generation TensforFlow framework for GPU parallel processing algorithm. Obtained result with high Rouge Score

Technologies used: Python2.7, Scikit Learn, Anaconda, TensorFlow, CUDA,Rouge toolkit, Stanford NLTK library.

OPEN SOURCE CONTRIBUTION

- Deep Learning contributor at NIVIDA high performance computing academy.
- Member of TensorFlow development community of Google Brain Project.

WORK EXPERIENCE

RESEARCH ASSISTANT at INSTITUTE OF SIMULATION AND TRAINING

Orlando, FL ▪ January 2016 - March 2016

Developing contextual Curricular Modules for Cyber Security Informatics at Institute of Simulation and Training for Intel grant project.