

# Rohan Singh Rajput

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Data Science and Machine Learning enthusiastic completed Master's in Computer Engineering from University of Central Florida, looking for full time opportunity, graduated in May 2017.

## MACHINE LEARNING SKILLS

**Programming:** Python, MatLab Java, R.  
**Application Packages:** Jupyter Notebook, Microsoft Azure, R-Studio  
**Operating System:** Linux (CentOs, Ubuntu), Microsoft Windows.  
**Libraries:** TensorFlow, Keras, Sci-kit Learn Pandas, Numpy.

## DATA SCIENCE SKILLS

**Programming:** SQL, No-SQL.  
**Big Data Platform:** Hadoop, Spark, Hive and PIG.  
**Database:** MySQL, T-SQL, Microsoft SQL Server, Oracle, Mongo-db.  
**Cloud Platform:** Google Cloud, Amazon AWS, Microsoft Azure.

## AWARDS

- Profession Internship award at Walt Disney Company
- Awarded with 'Technical Excellency', 'Star Team' and 'Best Team' at Tata Consultancy Services

## TALKS AND SESSIONS

- Provided Training Session for 'Python tutorial for Data Science' at Walt Disney Company
- Provided session for 'Machine Learning for Data Science' at Walt Disney Company

## PROFESSIONAL SKILLS

- Team player, worked with many organizations.
- Leadership skills, led multiple teams in Kaggle competition
- Communication skills
- Intellectual curiosity.

## WORK EXPERIENCE

### DATA ANALYST INTERN at THE WALT DISNEY COMPANY

Orlando, FL ▪ January 2017 – May 2017

- ❖ Worked as an analyst and developer in an audit automation project. Automated a manual data mining process using Microsoft SQL server and SSIS process. Optimized the query timing by 70 percent. Reduced 16 hours of manual work and increased the accuracy of data by nearly 100 percent.

### GRADUATE RESEARCH ASSISTANT at UNIVERSITY OF CENTRAL FLORIDA

Orlando, FL ▪ January 2016 – December 2016

- ❖ Worked on Energy forecasting project using Deep Learning. Used RNN models to forecast time series models. Achieved 7% accuracy improvement over traditional systems.

### SYSTEM ENGINEER at TATA CONSULTANCY SERVICES

Mumbai, India ▪ December 2012 – July 2015

- ❖ Worked on enhancement project for Data analytics tool. Created reporting and visualization tool. Automated report generation, monthly dashboard, and analytical processes for team. Reduced manual workload by 10-15 hours monthly.

## PROJECTS

### SEMI SUPERVISED LEARNING ON HPC ENVIRONMENT

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), TensorFlow, 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.

### DEEP-FORECASTER: RNN BASED FORECASTING MODEL

Created forecasting model using Recurrent based Neural Network. Time series analysis done on various type of datasets. Achieved low RMSE score on each dataset. Performed various Hyper-parameter tuning to achieve good score on LSTM and GRU model on GPU.

**Technology Used:** Python, Keras Framework, Jupyter environment, GPU implementation.

### DEFENSE AGAINST BLACK-BOX ATTACK ON DNN

Performed defense mechanism study for black box attack on deep learning models. Used CIFAR-10 and MNIST dataset for the validation. Studied various parameter and purposed various

**Technology Used:** Python, Jupyter package, Keras framework.