

AYUSH K SINGH

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EDUCATION

Northeastern University

Boston, MA

Master of Science in Computer Science

Expected - Dec. 2017

- Coursework: Machine Learning, Distributed Systems & Cloud Computing, PGM & Parsimonious Modeling, Cognitive Computing & Deep Learning, Parallel Data Processing in MapReduce
- Developing a framework to compress redundant Neural Networks for Deep Learning on FPGA.
- Researching on parameter estimation and finding elimination ordering in bipartite clinical PGM.
- Mined 27 years worth of BTS airline data to find top n least delay, hops and predict cheapest flights.
- Built a Neural Network to predict bird sightings from eBird Dataset getting highest accuracy of 94.6%.
- Received Graduate Certificate in Data Analytics *i.e.* Stats, Mining, Storing, Visualization.
- Built a VM to provision on premise resources from AWS for scaling apps at peak workloads.
- Developed a learning to rank game rating system improving conventional rating system by 8%.
- Developed command line interface to simulate Unix shell and file system in C.

Graphic Era University

Dehradun, India

Bachelor of Technology in Computer Science & Engineering

Sept. 2010 - Aug. 2014

- Coursework: Software Engineering, Design & Analysis of Algorithms, Computer Architecture, Computer Networks, Operating System Concepts, Database Management Systems, OOP Concepts
- Location based Online Grocery Store
 - Developed a responsive single page app in MEAN storing sessions in Redis.
 - Devised tool to monitor inventory, track sales & app performance using statsD - Graphite.
 - Built an item-item similarity based collaborative filtering recommender using Spark MLlib.
- Developed Official College Festival website using JavaScript, and Google Docs API.

EXPERIENCE

TripAdvisor

Boston, MA

Software Engineer Co-op

May 2016 - Dec. 2016

- Improved personalization from time weighted to collaborative filtering getting 17% sales hike.
- Built an end to end admin app for support team to update subscribers details in MEAN Stack.
- Developed log processor to categorize, process and visualize exim logs in python, Kafka, ELK.
- Built personalized attractions and subject line recommender at hack days in R, python.

Indian Defense Research and Development Organization

Agra, India

Intern

July 2013 - Sep. 2013

- Converted entire paper oriented equipment demand system to online portal for Scientists.
- Built an end to end app using LAMP stack reducing the application processing time by 20%.

SKILLS

Languages	C, Python, Java, JavaScript, Scala, Julia, Shell, \LaTeX
ML	Theano, TensorFlow, Keras, CNTK, scikit-learn, MXNet
Databases	MySQL, RedShift, MongoDB, Elasticsearch, Solr, Redis, HBase
Big Data	R, Spark, Map Reduce, Hive, Pig, ELK, Kafka, Tableau, AWS, OpenStack
Web	HTML, CSS, JSP, PHP, NodeJS, AngularJS, ReactJS, jQuery, Django, SpringMVC