Divyansh Khanna

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EDUCATION

NEW YORK UNIVERSITY
Masters in Computer Science
Courant Institute of Mathematical Sciences
Expected May 2019 | New York City

BITS PILANI
Bachelor of Engineering in Computer Science
Master of Science in Mathematics
July 2016 | Goa, India
Cum. GPA: 8.17 / 10.0
CS Major GPA: 8.80 / 10.0

SKILLS

PROGRAMMING
Java • Python • JavaScript • C++
Knowledge of:
Tensorflow • Scikit-learn
MapReduce • Hive
Cassandra • ElasticSearch
Familiar with:
Spark • Scala

COURSEWORK

GRADUATE
Fundamental Algorithms
Operating Systems
Vision meets ML

UNDERGRADUATE
Design and Analysis of Algorithms
Artificial Intelligence
(Teaching Assistant)
Parallel Computing
Optimization
Graphs and Networks

LINKS

Github:// **divyanshk**
LinkedIn:// **divyanshkhanna**
Twitter:// **@divyanshkhanna1**

EXPERIENCE

FLIPKART | Software Development Engineer
December 2016 – July 2017 | Bengaluru, India
- Worked with the Data Platform team on building products for better insights on daily data captured across the Flipkart ecosystem
- Developed new features for the Common Data Model, a framework to provide a self sustaining platform capturing complete data life cycles
- Identified the bottleneck of a production Hive job, designed and implemented a solution to cut the CPU time by over 5 times

INDIAN INSTITUTE OF SCIENCE | Project Assistant
July 2016 – December 2016 | Bengaluru, India
- Collaborated with the Energy Analytics team on behavioral activity models
- Built models for analyzing households' power consumption activities
- Deployed ensemble supervised learning along with hidden Markov models to model the consumption patterns

MYNTRA | Software Engineering Intern
Jan 2016 – July 2016 | Bengaluru, India
- Developed a dashboard for detailed topic analysis of the Myntra mobile app's personalized feed using NoSQL databases and JS backend framework
- Created a tool for fetching the top posts within a date range ranked by various user provided metrics
- The dashboard was used across multiple product and data science teams to validate the feed's performance

SIEMENS RESEARCH | Summer Intern
May 2015 – July 2015 | Bengaluru, India
- Identified performance overheads of CUDA and cpp backend of Thrust: A template library for CUDA
- Used timing and profiling tools to estimate the performance differences
- The analysis was used to overcome delays in production code

PROJECTS

COMPARISON OF OPTIMIZATION TECHNIQUES FOR NEURAL NETWORKS
- Implemented a 2 layer neural network with ReLU activations and Dropout
- Evaluated the performance of SGD, Momentum, RMSProp, ADAGrad and Adam optimizers
- Studied the impact of training the classifier with an decaying learning rate
- The model was built using Tensorflow and was tested on NotMNIST dataset

PARALLEL APPROACH TO SEARCH ALGORITHMS FOR DISCRETE OPTIMIZATION PROBLEMS
- Worked with parallel search algorithms namely Depth First, Best First, Iterative Deepening A Star and their application to optimization tasks using OpenMPI
- Covered load balancing and communication analysis of the parallel implementations of the algorithms in Python