

# Deepen Mehta

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## EDUCATION

**Northeastern University**, Boston, MA

GPA 4.0/4.0

College of Computer and Information Science

Sep 2014 - Present

*Candidate for a Master of Science in Computer Science*

Expected Graduation: Dec 2016

Related Courses: Parallel Processing in MapReduce, Machine Learning

Data Mining Techniques, Information Retrieval

**Dharmsinh Desai University**, Ahmedabad, India

*Bachelor's Degree in Electronics and Communications Engineering*

May 2012

Related Courses: Programming in C, Object Oriented Programming and Concepts (C++)

Fundamentals of Computer Networks, Embedded Systems

## TECHNICAL KNOWLEDGE

**Languages:** Java, Python, Scala

**Web Technologies:** J2EE, HTML5, CSS3, Bootstrap, JavaScript - jQuery, Ajax Scripting, Apache Tomcat

**Frameworks:** Apache Struts/Struts 2, Hibernate (ORM)

**Database:** Vertica, MySQL, Oracle 10g, MongoDB

**Software:** Eclipse, NetBeans, Dr Racket, DB Viz, Aqua Data Studio

**Data Analytics:** Hadoop MapReduce, Spark, Tableau, Elasticsearch

## WORK EXPERIENCE

**Intuit Inc.**, San Diego, CA

Jun 2015 – Dec 2015

Software Engineer – Co-op

- Developed several routines and modules to support ETL architecture for transitive closure on Vertica.
- Create ETLs to take data from various operational systems and create a unified dimensional or star schema data model for analytics and reporting.
- Developed performance dashboards, leveraging Vertica's analytical capabilities, which encompass key metrics to be reviewed with senior leadership and sales management.
- Work with business owners of Product, Customer and Marketing to build data sets that answer their specific business questions.
- Helped team with SQL tuning and optimization for better performance while retrieving huge data using aggregate and analytic functions.

**Northeastern University**, Boston, MA

Jan 2015 – May 2015

Teaching Assistant, Fundamentals of Computer Science II

- Responsible for designing and teaching labs, oversee grading of homework sets, help grade exams and hold office hours to help students with learning material.

**Tata Consultancy Services Ltd.**, Mumbai, India

Jun 2012 – Jun 2014

Software Developer

- Fabricated web based product in J2EE Web tier targeted to streamline and host Tata Group's HR practices.
- Crafted rich dashboards for data analysis using JFreechart and query optimization with MySQL stored procedure, which allowed HR user to efficiently analyse data.
- Developed report generation module that assisted in generation of MS Excel reports, used for data analysis.
- Implemented Bootstrap to design responsive web interface making it user friendly for mobiles and tablets.

## PROJECTS

**Object Classification in Images**

Jan 2016 - Present

- Implemented deep learning algorithm Convolutional Neural Networks in order to classify images - Ongoing.
- Used CIFAR-10 dataset to classify 10 categories of images.
- Implementing Bayesian hyper-parameter optimization to get low error rate on classification - Ongoing

**Flight Analytics**

Jan 2016 - Present

- Developed Random Forest model using an origin, a destination and a date to propose two-hops routes that minimize the chance of missed connections.
- Developed Linear Regression model to predict cheapest airline using the evolution of prices of the carrier over time using MapReduce.
- Implemented real time analytics for flight dataset using Redis and Spark's Streaming module - Ongoing.

**Data Retrieval Systems**

Jan 2015 - May 2015

- Stored and indexed 80000 complex unstructured corpus of data in Elasticsearch using Python.
- Implemented vector space models and language models such as Okapi TF, Okapi BM25 and Unigram LM.