

Priyank Agrawal

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EDUCATION

MS in Information Systems Engineering Northeastern University, Boston, MA Expected Dec 2017

Coursework: Algorithms, Data Science, Machine Learning, Advanced Hadoop MapReduce Programming, Data Warehousing and Business Intelligence, Data Management and Database Design, Web Development Tools and Methods, Web Design and User Experience, Application Engineering and Development (**GPA: 3.49/4.0**) (Secondary: **MS in Data Mining Engineering**)

BE in Computer Engineering Gujarat Technological University, Vasad, India July 2009 - June 2013

Coursework: Design and Analysis of Algorithms, Software Engineering, Web Application Development, System Programming, Compiler Design, Advance Java Technology, Distributed Systems, Parallel Processing, Operating Systems

EMPLOYMENT

Software Engineer (Full-time Intern) The MathWorks, Natick, MA Jan 2017 - Present

- Developing a RESTful API in Ruby on Rails that aims to automate various processes for MathWorks' account profiles.
- Engineering a data reporting solution that involves aggregating production data, storing results and visualizing them in MATLAB.
- Developed a consumable RESTful API in Java, AngularJS and used JUnit and EasyMock extensively to unit test the application.
- Working in-depth in Software Development Lifecycle and Agile Scrum methodology with strict coding standards and code reviews.
- Built a series of dynamic dashboards and reports for tracking performance and usage metrics using the server data in Splunk to do real-time data analysis.

Teaching Assistant Northeastern University, Boston, MA May 2017 - Present

- Assisting students in assignments, conducting labs and grading quizzes for Data Warehousing and Business Intelligence course.

Software Engineer Bharat Naukri, Vadodara, India June 2014 - May 2015

- Involved in building a J2EE application that is being used by engineers at the firm. Also, performed various data analysis tasks.

Software Engineering Intern Bharat Naukri, Vadodara, India June 2012 - May 2013

- Developed an Android application that enables users to book tables and rooms in restaurants and hotels.

ACADEMIC PROJECTS

Machine Learning Python Models (2017) - Implemented linear, multiple, ridge and lasso regression with gradient descent optimization and k-folds cross validation for predicting house prices. Implemented KNN for document retrieval by calculating similarity using TF-IDF. Performed transfer learning to extract deep learning features of image-net model and trained the KNN image retrieval model. Built a personalized item similarity song recommender as well as logistic regression classifier to analyze sentiments.

Yelp Restaurant Recommender System (2016) - Used MapReduce framework on Yelp dataset to build a content based and personalized restaurant recommendation engine and visualized the outcome of various MapReduce analysis of the data in PowerBI.

Sentiment Analysis with Web Scraper (2016) - Built a text mining web-scraper in R to fetch reviews in real time from TripAdvisor and Amazon, then performed data cleaning, tokenization, stemming, lexicon comparison to calculate sentiment score of each review.

Loan and Life Insurance Applicants R Models (2016) - Implemented Naïve Bayesian and Neural Net algorithm to build classifiers for loan applicants. Also, built models using support vector machines and decision trees to predict response for life insurance applicants.

Microsoft Contoso Data Warehouse (2016) - Performed Extract, Transform and Load on Microsoft Contoso Database to build a hybrid dimensional warehouse having facts and slowly changing dimensions. Performed data transformation, error handling, source to target mapping during the process. Created dashboards, reports to analyze trends, contributions and correlations in the data.

Patient HealthCare Provider DB (2016) - Designed a data model with 28 entities for healthcare providers storing all patient related information and developed a supporting J2EE application to showcase the corresponding crud operations.

Other Coursework Projects (2015 - 2016) - An Internet of Things Air Index Calculator using Java Swing, a Job Portal application using Spring, Hibernate with crud operations and MySQL data persistence, and Data Warehousing of AdventureWorks DB.

TECHNICAL SKILLS

Languages - Java, JavaScript, Python, R, HTML/CSS, C/C++, SQL

Big Data - Hadoop, MapReduce, Pig, Hive, HBase

Data Visualization - PowerBI, Tableau, MS Excel, Qlik Sense

Web - Spring, Hibernate, Maven, Angular, React, Node, Bootstrap

Data Engineering - Graphlab, Numpy, Pandas, Scikit-Learn

NoSQL/DBMS - MongoDB, SQL Server, MySQL, PostgreSQL

CERTIFICATION

Machine Learning Specialization

University of Washington, Seattle, WA

Expected August 2017