Akshay Bhatia

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Education:

MASTER OF SCIENCE IN COMPUTER SCIENCE |MAY 2018 | RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ
- Relevant Courses: Data Structures and Algorithms, Artificial Intelligence, Database Management Systems Implementation, Text Mining and Big Data Analytics, Computational Robotics, Software Engineering of Web Apps

BACHELOR OF ENGINEERING IN INFORMATION TECHNOLOGY| MAY 2016 | SARDAR PATEL INSTITUTE OF TECHNOLOGY, MUMBAI, INDIA
- Relevant Courses: Object Oriented Programming, Structured Programming Approach, Advanced Internet Technology, Distributed Systems, Operating Systems, Software Project Management, Data Mining and Business Intelligence

Technical Skills:

Operating Systems: Windows, Linux
Programming: Java, Python, C, C#, HTML/CSS, JavaScript, PHP, AJAX
RDBMS: Oracle, MySQL, PostgreSQL, SQLite
Others: Django framework, Android SDK, Amazon Web Services(AWS), Google Cloud Platform, Apache Spark

Software Development Experience:

EXPERIMENTS WITH REDDIT COMMENTS | RUTGERS UNIVERSITY| JAN 2017 – APRIL 2017| NEW BRUNSWICK, NJ|
Python, Apache Spark, Google Cloud Platform
- Analyzed one month of Reddit comments using Apache Spark and trained a LSTM recurrent neural network on data from specific subreddits in order to predict comments using deep learning strategies
- Visualized the data in Apache Spark and found interesting insights, such as the presence of cliques in subreddits and relation of comment length to score.

STOCK MARKET ANALYSIS AND PREDICTION TOOL | RUTGERS UNIVERSITY| JAN 2017 – APRIL 2017| NEW BRUNSWICK, NJ | *Python, Django, MySQL, CoffeeScript, Bootstrap*
- Developed a web-based application which presented users with a dashboard to buy/sell stocks
- Applied Machine Learning techniques such as Bayesian Curve Fitting, Artificial Neural Networks and Support Vector Machines to historical and real-time data of various stock prices and predicted whether stock of a particular company should be bought or held or sold.

CHESS DATA ANALYTICS USING HADOOP| RUTGERS UNIVERSITY| NOV 2016 – DEC 2016 | NEW BRUNSWICK, NJ| *Java, AWS EC2, S3*
- Analyzed small (1 GB) and very large (22 GB) chess game data sets using MapReduce
- Determined the percentage victories for Black and White and the number of games that ended in a draw

PREDICTIVE AND CORRECTIVE TEXT INPUT FOR DESKTOP EDITORS |S.P.I.T.| AUG 2015- APRIL 2016 |MUMBAI, INDIA | *Java*
- Developed an improved text editor for Windows machines to replace popular editors like Notepad
- Implemented suffix trees and utilized n-grams and frequency analysis to facilitate word prediction
- Authored and presented a technical paper regarding the same at the *International Conference on Advances in Human Machine Interaction*, 2016 which was published in the IEEE Xplore Digital Library

APPLICATION DEVELOPER INTERN | GRUH MAINTENANCE AND BILL PAY CORPORATION PVT. LTD. | MAY 2014 – JULY 2014 | MUMBAI, INDIA | *Android SDK, Java, REST, JSON*
- Developed an Android application to aid in administrative operations of housing societies in Mumbai
- Created an intuitive User Interface and designed modules to interact with REST services and fetch data in JSON format
- Launched the application on the Google Play Store (link)

Teaching Experience:

PART TIME LECTURER | RUTGERS UNIVERSITY | JANUARY 2017 – PRESENT | NEW BRUNSWICK, NJ
- Conducted weekly recitations for the course CS 110: Introduction to Computers and their Applications in Spring and Fall semesters and evaluated the performance of over 100 students
- Rated excellent in terms of teaching effectiveness by more than 70% of the students in the Student Instructional Rating Survey at Rutgers