Rohan Sadale

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Education

University of Minnesota, Minneapolis, MN, USA   September 2015 - Present
Master of Science, Data Science   GPA: 3.75/4.00   *(expected graduation - May 2017)*

College of Engineering (COEP), Pune, MH, India   July 2008 - July 2012
Bachelor of Technology, Computer Engineering   GPA: 7.99/10.00

Technical Skills

Languages: Python, C/C++, Javascript, Shell Scripting, PL/SQL
Databases: MongoDB, MySQL, Oracle 11g
Big Data/Statistical Data Analysis: R, Tableau, Hadoop, Pig, Hive, Spark

Industry Experience

Veritas Technologies LLC, Mountain View, CA, USA
Data Analytics Intern   June 2016 - September 2016
  – Large Scale Feature Extraction, Data Cleaning and Exploratory Data Analysis of Hardware Appliances
  – Design and re-structure historical structured/unstructured datasets to make them compatible for analytical operations.
  – Build models for forecasting disk usage across appliances and predicting appliance failures.

Barclays, Pune, MH, India
Technology Analyst   July 2012 July 2015
  – Designed a streamlined Database-ETL system for generation of financial reports for APAC regulatory bodies
  – Defined and implemented underlying Database architecture, data models and methods for data extraction from heterogeneous trading databases
  – Developed data transformation and statistical analysis packages using Java and Oracle PL/SQL
  – Developed, maintained and enhanced batch framework using Perl and Shell scripting
  – Delivered Functional specifications, Scope documents, Interface documents and data mapping documents
  – Implemented and practiced agile methodology for project deliveries. Configured JIRA for the implementation

Course Projects

- **A Scalable Movie Recommendation System:** Built a movie recommendation system for suggesting movies to users. The project involved multiple steps such as extracting data from RDBMS, Web Logs and APIs, cleaning data using Hadoop MapReduce jobs, data filtering and transformation using Apache Hive and building scalable item-based recommender using Apache Mahout. (Java, HDFS, Apache Hive, Mahout, R)

- **MapReduce like Compute Framework:** Developed a MapReduce-like compute framework for performing operations in distributed fashion. The framework would receive jobs from a client, split job into multiple tasks, and assign tasks to compute nodes which performed the computations. Proactive fault tolerance, fault detection and recovery were implemented to guarantee correct results even in the presence of node failures. (Java, Apache Thrift)

- **Distributed File System:** Implemented a Distributed File System in which clients shared files with each other. Multiple clients could read/write files at the same time and the files would be replicated (distributed) across several file servers. Achieved consistency across these files using Quorum based techniques. (Java, Apache Thrift)

- **Web Scraping & Data Analysis:** Developed a web scrapper tool to extract restaurants data across US. The scrapper used a novel technique to locate regions precisely using Google Maps and extracted restaurant info from those regions through Yelp. Later, performed Exploratory data analysis to visualize trends in the data and Sentiment analysis on the user reviews to suggest quality improvements for restaurant owners. (Python, R, MongoDB, XML, JSON)

- **Distributed Hash Table (DHT):** Implemented a File System using DHT based on Chord protocol. The system comprised of three major components - Clients, Nodes and SuperNode. Clients could read or write files to the file system. Nodes formed DHT with help of SuperNode and were used by clients to read and write files. SuperNode maintained Nodes info, helped nodes form DHT & assisted clients in writing/reading files from appropriate Nodes. (Java, Apache Thrift)