

Rahul Iyer

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I am a computer science graduate working in field of Data Science. I am passionate about machine learning, natural language processing and big data analytics and I love conducting research on the same .

Previous Employment

- News Corp BigDecisions** **Mumbai**
Data Science Analyst *July 2016–Present*

 1. Here I have migrated the company databases from database from Amazon Redshift to Google BigQuery.
 2. I am also currently involved in developing state of the art Asset allocation models, which involves use of machine learning in finance data. I have developed income and expense prediction models using various data related to family like family structure, size , dependents etc.
 3. I have used Big Data handling technologies such as Apache Spark's MLlib to conduct text mining on life insurance claims.
 4. I have also developed a complete full fledged Database and site search engine using Elastic search and deployed it as an AWS service. Here the data was migrated from Legacy MySQL System to a NoSQL database.
 5. Made a Restful API Service to fetch data from Elasticsearch which handled all HTTP queries.
- News Corp BigDecisions** **Mumbai**
Data Science Consultant *Aug 2015–Feb 2016*

 1. I worked as a Consultant contributing to their data advisory platform integrated into Calculators.
 2. I have improved the performance of in house analytic dashboard by over 20 times by efficiently caching the data locally.
 3. I have also clustered users who are beneficial to marketing and reduced the marketing costs by over 5% and improved click to buy performance by 8%.
 4. I have also classified about a million medical receipts using natural language processing techniques into relevant disease categories.
 5. I have developed mini tools using Rshiny like Smoking Calculator and eligible bachelor calculator..
- Indian Oil Corporation Limited** **Mumbai**
Software Trainee *June 2014 - July 2014*

 1. During my internship at IOCL I built an active news updating feed for users who don't have any internet access.
 2. I also helped them setting up their intranet service more efficiently by redesigning the complete interface with bootstrap theme
- stupidsid.com** **Mumbai**
PHP Developer *December 2013 - January 2014*

 1. I added chat feature for profiles to communicate and also tuned the performance of the website.
 2. I also improved the performance of the grad school recommendation system which is a big hit among the students.

Education

Academic Qualifications.....

- **VESIT(University of Mumbai)** **Mumbai**
○ *B.Eng Computer Engineering , First Class with Distinction–8.08/10* *2012–2016*

Research Projects.....

- **Final year Thesis/Project** '*Opinion Mining for Product Enhancement*'
The primary objective was to understand mobile features like positive and negative aspects of a product from user-provided reviews by determining the sentiment. I used a Deep Recurrent neural network to classify the reviews, for which I converted 3,000 reviews of top mobile brands from Amazon and Flipkart into sentiment treebank model and used this as my training set. I have consolidated my research into a paper titled "RecoMob: Opinion Mining for Product Enhancement" in 2017 IEEE International Conference on Computer Communication and Informatics
- **3rd Year Individual Project** '*English to SQL Machine Translation*'
I used statistical machine translation to convert English sentences (questions/query) into SQL with the help of MOSES and MGIZA++ (Word Aligner) to translate sentences. The system was fed with parallel training text data containing 500 sentences, one in English and the other in SQL having its corresponding translation.
- **2nd Year Individual Project:** '*All rounded student evaluation System*'
This system was used to track a student's academic records, extracurricular activities, research and work experience to predict their calibre and determine if they are all round students. The system not only made predictions but also suggested how students could improve their weaknesses.

Other Notable Course Projects.....

- **Airline Delay Prediction System** Using R and Hadoop on 5 million flight details of US and analyzed different patterns of delay and also predicted the delay.
- **SMS Spam Detection** Conducted text analytics on SMSs and classified them into spam or ham using Support Vector Machine.
- **Virtual Private Network using Raspberry Pi** Wrote a simple shell script to switch to a private network whenever RPi connects to a network using wlan0 interface.

Technical skills

- **Programming Languages:** Java ,Python ,R, C, PHP,HTML & JavaScript,SQL
- **Databases:** Google Bigquery,All RDBMSs,Hive,MongoDB
- **Technologies:** Apache Hadoop, Apache Spark , Machine Learning, Natural Language Processing and Specialized Data Mining Algorithms for Big Data
- **Other:** RapidMiner, Weka, Metabase, R Shiny

Interests and extra-curricular activity

- I was the "Technical Head" of Computer Society of India-VESIT chapter for a year.This required me to conduct workshops and seminars on a lot of new technologies which are actually not taught in the curriculum. There's also responsibility to conduct a lot of fun events with the use of computer science. I created a Virtual Stock Market which had more than 1000 active online players.

- I have also been part of technical assistance committee of college Festivals.I had the responsibility of automating ticket booking and host fun games online.
- My hobbies include playing Table Tennis,swimming,play cricket and volleyball.I also love trying hands on racing and sport related video games.

References

- Up to 3 references available on request