Sibi Rajendran

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EDUCATION

TEXAS A&M UNIVERSITY
MS in Computer Science
Expected : May 2017
College Station, TX

NIT, TIRUCHIRAPPALLI
B.Tech in Computer Science
August 2015
Tiruchirappalli, India

COURSEWORK

GRADUATE
Machine Learning
Artificial Intelligence
Software Engineering
Data Analysis using R
Information Storage and Retrieval
Analysis of Algorithms

UNDERGRADUATE
Data Structures and Algorithms
Artificial Intelligence + Practicum
Computer Graphics
Web Technology
Operations Research
Computer Networks

CERTIFICATIONS
SAS:
Certified BASE SAS Programmer
Data Science:
Springboard Data Science Intensive certification with Capstone Project

SKILLS

PROGRAMMING
Proficient :
• Python • R • SAS • Tableau
• SQL • C++ • Excel • Bash
Intermediate :
• Ruby • Ruby on Rails
• CSS • PHP • JavaScript • Java

OPERATING SYSTEMS
Linux - Ubuntu, Fedora • Windows

SOCIETIES

President - Balls by Picasso
Literary and Debating Society (NIT-T)

Editor-in-Chief of 'feeds'
NIT-T's official monthly magazine

Classical Violinist - SPIC MACAY

PROJECTS

PREDICTING RESULTS IN SOCCER LEAGUES • Data Science
September 2016 – December 2016
- Discovered scoring trends in European Soccer Leagues and compared effects of home advantage across leagues.
- Forecast the outcomes of upcoming matches with a Poisson model that incorporates the patterns previously found.
- Formulated a multiclass (win, draw, loss) classification problem - final model has a mean accuracy of 63% (random benchmark model has a 33% accuracy).

PREDICTING WEST NILE VIRUS IN CHICAGO • Machine Learning
August 2016 – December 2016
- Analyzed available data about mosquito traps and weather in Chicago to accurately predict the presence of West Nile Virus.
- The final Random Forest model with an AUC of 0.75 will help cut down costs by more than 25% for the public health department.

DRUG REPOSITIONING USING R • Data Analysis
January 2016 – May 2016
- Developed and implemented models in R to compare drug and disease signatures in order to find new applications for existing and approved drugs.
- Curated a set of existing diseases and with their corresponding control and disease cases from ArrayExpress in order to perform this big data analysis.

MINI SEARCH ENGINE - IMDB • Information Retrieval
January 2016 – May 2016
- Crawled data about 100,000+ movies from IMDb (Internet Movie Database).
- Summarized each review and analyzed each one's sentiment.
- Indexed these documents in SolR for quicker retrieval of short reviews along with a positive, negative or neutral score.

COURSE ASSIGNMENT SYSTEM • Software Engineering
August 2015 – December 2015
- Developed a web application using Ruby on Rails to get preferences from all faculty members regarding the days, time slots and classrooms in which they would like to teach - helped the department coordinator in assigning rooms and timings to match their preferences without generating conflicts.
- This app is being used by the department coordinator from Spring, 2016.

EXPERIENCE

SAMSUNG R&D INSTITUTE, INDIA • Student Intern
May 2014 – July 2014 | Bangalore, India
- Worked on IMS (IP Multimedia Subsystem) commercialization.
- Designed and implemented a new rate control algorithm for video telephony in the IMS Stack - implemented in all Samsung phones.

RESEARCH

DISTRIBUTED SYSTEMS - PUBLICATION • Research Assistant
January 2014 – August 2014 | Tiruchirappalli, India
- Analyzed existing Load Balancing algorithms for Task Assignment in Distributed Systems.
- Implemented a new optimized greedy algorithm C++ and OpenMPI and presented it in IJRCET conference.