

Sibi Rajendran

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EDUCATION

TEXAS A&M UNIVERSITY

MS IN COMPUTER SCIENCE

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 of 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 AND RESEARCH

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.

DATA FOR DEMOCRACY • ANALYST ADVOCATE

January 2017 - now | College Station, Texas

- Analyst advocate for USA Dashboard project - a dashboard of key metrics for the USA.

DISTRIBUTED SYSTEMS - PUBLICATION • RESEARCH ASSISTANT

January 2014 – August 2014 | Tiruchirappalli, India

- Analyzed Load Balancing algorithms for Task Assignment in Distributed Systems.
- Implemented a new optimized greedy algorithm C++ and OpenMPI and presented it in IJRCET conference.