

Saraswathula Abhay Shrinivas

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Enrollment Id: RIT2013065

OBJECTIVE

I am passionate to learn latest technologies and want to utilize my existing knowledge to benefit the corporate organization I would work for. I also endeavor to work in any challenging environments to enhance my skills. My objective is to fulfil a responsibility to the best of my abilities.

EDUCATION

Indian Institute of Information Technology, Allahabad

Bachelor of Technology, Information Technology

July 2013 to present

CGPA – 7.02 (4th Year Student)

ITI

12th, Board of Intermediate Education, Andhra Pradesh

Year of passing - 2013

94.2%

ITI

10th, Board of Secondary Education, Andhra Pradesh

Year of passing - 2011

91.2%

PROJECTS

Patient Billing System: (Ended: September 2014)

Developed a Patient Billing System which automatically handles allotment of ward and berth for a patient based upon the level of severity. The patient billing system bills the total amount of money that is to be paid to the organisation based on the level of severity and number of days the patient availed the facilities of the organization. The databases were normalized upto the 3rd normal form.

The entire project was developed using Netbeans IDE and Oracle SQL Developer IDE. The technologies used were Java, Swing (JAVA) , JDBC, MySQL.

Phd Thesis Examination Portal (Ended: January 2016)

Upon requirement by our project mentor, we developed a web application for the Phd research scholars of our campus to get their thesis evaluated online without any hassle. The thesis gets evaluated through this portal where a mentor guides the student. The mentor may ask the student to modify the thesis until the mentor is satisfied. The mentor guides the student till the thesis is evaluated. Some authorized referees evaluate the thesis based on the request of the mentor and director of the institute and they provide their remarks. The final remarks are reported by the admin and the institute decides if the paper is accepted or not.

The project was developed using Netbeans IDE and Oracle SQL Developer IDE. The technologies used were Java, JSP, HTML, CSS, JQuery, Bootstrap, Java Servlets , MySQL.

Extracting tweets from Twitter API (Ended: September 2016)

Tried my hand in making my own Twitter dataset by extracting tweets on a particular keyword with the help of a Twitter API named tweepy. Tweepy streams real time data in huge volumes containing many fields and can thus by using the split() function in either Java/Python, an entire dataset can be made from it. For the creation of a stream, authentication of the tweepy object is to be done by obtaining the unique consumer key, consumer secret, access token and access token secret which are provided by twitter itself for the developers.

The project was developed on Pycharm IDE and the technologies used were Python 2.7, Tweepy API v1.1

Improving Recommendations of Trust Based Recommenders in case of Attacks using Social Networks (Started: October 2016)

This project showcases the results of recommended movies to the users of the system. The users rate a minimum number of movies for atleast some common factor to be in. The Movielens database was used to acquire the user x item matrix. A trust network is built on the basis of Twitter conversations (Number of conversations, duration of conversation and balanced participation by both the users effect the trust of some user A on another user B). The Twitter dataset was built at the time when the Higgs Boson was discovered (<User A, User B, timestamp>). Based on the user x item matrix and the trust matrix, an algorithm called trustwalker algorithm, which combines both content based filtering methods and trust based methods by performing random walks and hereby reducing the RMSE (Root Mean Square Error) upon various attacks. Based on the predicted ratings of items, the items are suggested to the users.

Datasets and Research Papers used:

Higgs Boson Twitter Dataset: -<https://snap.stanford.edu/data/higgs-twitter.html>

Movielens Dataset: -<http://grouplens.org/datasets/movielens/>

Trustwalker: <http://dl.acm.org/citation.cfm?id=1557067>

Measure of behavioural Trust in Recommendation Systems: <http://cs.rpi.edu/research/pdf/10-03.pdf>

Simulation of a Ride Sharing Service (Started: January 2017)

It is a simulation of a real life problem in which some mobile users share rides upto some distance for a stipulated time. The trajectories of the mobile devices are measured and stored in a database. The points are clustered by using DBSCAN algorithm at different time intervals and density based clusters are formed based on the intersection at each cluster for which taxis are to be sent to each and every member in the cluster so as to pick the customers (mobile device users) and dropping them at their destinations.

Currently the algorithm is being implemented and work is yet to be done on making the GUI and implementation.

TECHNICAL SKILLS

Programming Languages known: C, C++, Java(basics), Python(Basics).

Web Development: HTML, CSS.

Databases Used: Oracle 11g XE, MySQL.

Software Experience: Netbeans, Dev C++, Pycharm, MS Office.

Platforms: Comfortable with linux and Windows Environment.

AREAS OF INTEREST

Data Structures, Design and analysis of Algorithms, Database Management , Data Mining, Web Development, Data Analyst.

ACHEIVEMENTS

Was a Runner-up at Inter college CS tournament of IIITA's Technical Fest.

Won a prize in Tug of War and singing in IIITA's Cultural fest.

Participated in many Olympiads and achieved decent scores in some of them.

Volunteered for IIITA's Web development team for developing an IEEE website for the institute.

A decent score in JEE (Mains) and a decent rank in VIT's admission test.

Designed and Developed a Logo for a website without prior knowledge of photoshop.

HOBBIES

Singing, Playing Cricket, Solving mathematical problems, Playing Counter-Strike, Social Networking.

PERSONAL DETAILS

Father's Name: S.S.N Murthy.

Date of birth : 22nd February 1996.

Nationality : Indian.

Permanent Address: Flat No: 2, Pallavi Appts, Lawsonsbay Colony, Visakhapatnam, Andhra Pradesh.

Current Address: IIIT Allahabad.

Mobile Number : +91-8948575904, +91-9515531719.

Email: abhayshrinivas@gmail.com, rit2013065@iiita.ac.in

DECLARATION

I hereby declare that the information provided is true to the best of my knowledge.

Date: 18/10/2016

Place: Allahabad

Signature