SALIL DABHOLKAR

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SUMMARY

I am interested in opportunities involving the theoretical study and applications of information retrieval: information systems, data modelling, informatics, statistics, and other related fields. I am particularly interested in its cross-disciplinary applications in social, biological and cognitive aspects and interoperability with other fields like machine and deep learning.

EDUCATION

ST. FRANCIS INSTITUTE OF TECHNOLOGY, MUMBAI UNIVERSITY
B.E. Information Technology (7.83, **Distinction**)
2013 – 2017 (expected)

***Relevant topics**:* clustering, classification, outlier analysis, frequent pattern mining, decision support system, advanced SQL, transaction processing and recovery, distributed databases, warehousing, dimensional modelling, ETL process and OLAP
sampling theory, chi-squared test, t-distribution, vector algebra and calculus, Z and Laplace transform, non-linear programming, artificial variables, differential calculus, complex integration

PATKAR COLLEGE, MAHARAHTRA STATE BOARD
Higher Secondary School (77.17%, **Distinction**)
2011 – 2013

***Relevant topics**:* advanced C++ programming, operating systems, data structures, web programming, .net framework, microprocessors and organization of 8085, instruction set and programming of 8085, linear inequalities, logarithms, complex numbers, permutations, induction and binomial theorem, calculus, linear programming problems

YASHODHAM HIGH SCHOOL, MAHARAHTRA STATE BOARD
Secondary School (96%, **Distinction**)
2005 – 2011

***Relevant topics**:* probability, statistics, variation, sequences, linear algebra, quadratic equations, C++ programming, networking concepts, basic data structures

RESEARCH

Automatic Document Summarization Using Sentiment Analysis
Salil Dabholkar, Yuvraj Patadia, Prajyoti Dsilva

This research work focuses on identifying and extracting important parts of a document using sentiment analysis to form a coherent summary. The paper proposes and details a novel method for the same. It uses a degrading extraction approach where in, if one extraction strategy fails then the model gracefully degrades to another. It was presented in an ACM conference in 2016 and is available in the Digital Library.

PROJECTS

R&D PROJECT: QUIBBLE

R&D DEPARTMENT, SFIT. 2016-2017

To help the teachers with entering and calculating marks for all students, I created a software called “Quibble”. It allows the teacher to map exam questions to specific Course Outcomes and enter marks for all students.

The software then automagically performs all the required computations and provides the user with the final table with an option to save it as a PDF file.

For data acquisition, it supports parsing an excel sheet for past years, when it was done manually using excel. It will further be used to compute various statistics and performance measures of students over the years providing the institute with invaluable data and hidden patterns in student performances.

AUTOMATIC CODE GENERATION USING VISUAL TOOLS

B.E. PROJECT, 2016-2017

The aim of this project is to abstract away the complexities involved in textual programming languages by creating a visual interface consisting of several graphical tools which provide a user-friendly programming experience for beginners. The graphical tools will enable the user to develop programs visually without the need to worry about different syntax and semantics of different programming languages and instead focus on the logic and flow of the program.

CRIMINAL IDENTIFICATION SYSTEM

INTELLIGENT SYSTEMS, 2016

This project makes use of the data acquired and classified using data mining in the previous project to create an intelligent system which can automatically determine if a particular person could be a criminal or not.

Although it took only a limited number of parameters and was a very rudimentary system, it acted as a great proof-of-concept.

POLICE DATA MINING

DATA MINING AND BUSINESS INTELLIGENCE, 2016

This project makes use of various data mining concepts to preprocess, classify the data into pre-determined categories using WEKA. It also involved performing outlier analysis and frequent pattern mining. Finally, data visualization was performed using orange tool to visualize and interpret the results found.

OTHER INTERESTS

THEOROTICAL CS

reinforcement learning, representation learning, unsupervised learning, (nonconvex) optimization, dimension reduction

SEMANTIC WEB

semantic network, microformat, microdata, RDFa, linked data, semantic queries, semantic integration

VOLUNTARY WORK

WIKIA VANGUARD
WIKIA INC

Responsible and at the forefront of all of Wikia's activities to make wikis portable. As part of Vanguard I have administrative access of over 360,000 wikis. I make sure wikis appear perfect on everything from a big screen TV to smart watches.

WIKIA COUNCILLOR
WIKIA INC

The Community Council is Fandom's private product testing and feedback group. Members are Fandom users who have been selected by Staff to provide preliminary feedback and user testing on new features that are under development before they are released to the wider community.

ADMINISTRATOR
OF SEVERAL WIKIS

I am an administrator on several wikis. My general activities include scripting and styling, managing templates, creating abuse filters, running a bot for automated changes and blocking vandals.
I am one of the handful users who know how to use Semantic MediaWiki which essentially turns a wiki into a powerful and flexible knowledge management system. All data created within SMW can easily be published via the Semantic Web, allowing other systems to use this data seamlessly.

HIGHLIGHTS

- 99/100 marks in Sanskrit in SSC state-wide exam
- Class representative, managing communication between teachers and students
- 3rd in class in the latest semester
- Only user selected as Wikia Star from my country
- Completed online offering of six CS related courses, five of which were from Stanford University
- Developed a compiler for COOL as part of one of those courses