Dhawal Joharapurkar

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Work Experience

Indian Institute of Science, Bangalore　　　　　　　December '14– May '15
Project Trainee, Supercomputer Education and Research Centre (SERC)
- Temporal scoping and ordering of relations in a knowledge base
- Entity linking and disambiguation in large text corpuses

Indian Institute of Technology, Kharagpur　　　　　　May '14 – June '14
Summer Research Intern, Dept. of Computer Science & Engineering
- Automatic profiling of Driver Behaviour on a GPS dataset provided by MHRD.
- Implemented DBSCAN algorithm to find traffic stoppage points and segmented roads based on their speed profiles
- Modified "simplekml" Python module to plot the GPS points on Google Maps

DataWeave Software Pvt. Ltd., Bangalore　　　　　　May '13 – Jun '13
Summer Intern
- Created data crawlers using Python that aggregated and stored content in JSON dumps
- Content available via APIs, a few listed here

Education

Manipal Institute of Technology, Manipal　　　　　　2011 - Present
B.Tech in Computer Science & Engineering
Bachelor Thesis: Temporal ordering and scoping of facts in a knowledge base
GPA: 7.01

National Public School, Rajajinagar, Bangalore　　　　　　1997-2011
Central Board of Secondary Education

Online Courses

The Data Scientist's Toolkit　　　　　　　　　　　　June '14
coursera.org, 100%　　　　　　　　　　　　　Johns Hopkins University

Design and Analysis of Algorithms　　　　　　　　　　May '14
Massively Empowered Classrooms, 100%　　　　　　　Microsoft Research

Algorithms: Design and Analysis, Part 1　　　　　　　July '13
coursera.org, 98%　　　　　　　　　　　　　　Stanford University

Machine Learning　　　　　　　　　　　　　　　April '14
coursera.org, 100%　　　　　　　　　　　　　　Stanford University

Projects

Detecting Fibrous Regions in Protein Sequences　　November '13 – May '14
Guide: Dr. Smitha Nair　　　　　Manipal Institute of Technology, Manipal
Worked on the detection of fibrous regions in protein sequences using Support Vector Machines and Bee Colony Optimization for PCA.

Photo Tagger: Multi-class classification   March '14
Rank: 84 out of 644   CSA, IISc, Bangalore
Used SVM to classify photos into various classes (people, cars, shoes, buildings, flowers). The parameters of the SVM were optimized using GridSearchCV. The features were extracted using the SIFT algorithm.

Craigslist Post Classification   October '13
Accuracy: 81%   Manipal Institute of Technology, Manipal
Used bag of words model, tf-idf and SVM to classify posts on Craigslist into sections based on the product description. The open dataset was available on HackerRank

Conference
Presentations

1. **Craigslist Post Classifier: Identifying the category of a Craigslist post**, IEEE Student Branch, Manipal - February, 2014 (Adjudged Best Paper)

2. **Craigslist Post Classifier: Identifying the category of a Craigslist post**, ICCMEH 2014, December, 2014

3. **Enhancing a Financial Service organizations cross-sell strategy using Artificial Neural Networks**, ICCMEH 2014, December, 2014

Talks

1. **From Big Text to Big Knowledge**, Supercomputer Education and Research Centre Open Day 2015, Indian Institute of Science, Bangalore

Programming   **IEEEXtreme Programming Competition 7.0**   October '13
Competitions   University Rank: 1, Country Rank: 265   IEEE

Positions Held **IEEE Student Branch, Manipal**   August '13 – May '14
                Technical Secretary   Manipal Institute of Technology, Manipal
                Organized several events that saw a participation of 80+ teams each.

Skills
- **Languages:** C/C++, Python, Octave, SQL, LaTeX
- **Operating Systems:** Linux(various distributions), Microsoft Windows
- **Tools:** Emacs, Sublime Text, Enthought Canopy, IPython
- **Version Control System:** git

Curriculum Courses Neural Networks and Fuzzy Systems; Data Mining and Data Warehousing; Software Testing; Distributed Computing Systems; Computer Communication and Networks; Operating Systems; Graph Theory; Cryptography and Network Security; Parallel Computing; Language Processors; Relational Database Management Systems; Discrete Mathematics; Switching Theory and Logic Design; Formal Languages and Automata Theory; Data Structures; Design and Analysis of Algorithms; Design and Implementation of Programming Languages; Computer Organization and Design