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

From Big Text to Big Knowledge Feb '15
SERC Open Day 2015 IISc, Bangalore

Programming Competitions

IEEEXtreme Programming Competition 7.0 October '13
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