Dhawal Joharapurkar

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Education

University of California, Santa Cruz   2016–Present
Ph.D. in Computer Science
Advisor: Prof. Lise Getoor

Manipal Institute of Technology, Manipal   2011–2015
B.Tech in Computer Science & Engineering
Bachelor Thesis: Temporal Scoping of Facts in a Knowledge Base

Work Experience

Lam Research, Fremont   Jun '18–Present
Intern, Global Information Systems
Mentor: Amod Ghangurde
- Initiated the standardization of the Python development environment across business units
- Foundational work on using Natural Language Processing at Lam Research. Used NLP to augment existing ML systems by ingesting text from Lam Knowledge Documents.

Chobanian Group, San Jose   Jun '17–Aug '17
Research Intern, Data Science Group
Mentor: Dr. Tyler Munger
- Expert identification in large delivery organizations
- Statistical Relational Learning approaches to expert identification

Xerox Research Centre India, Bangalore   Jun '15–Jan '16
Research Intern, Machine Learning and Statistics Group
Mentors: Dr. Vaibhav Rajan and Sumit Negi
- Analysis of clinical notes of ICU patients using Topic Models
- Created a plotting tool to highlight different statistics across classes

Indian Institute of Science, Bangalore   Dec '14–May '15
Project Trainee, Supercomputer Education and Research Centre (SERC)
Mentor: Prof. Partha Talukdar [MALL Lab]
- Temporal scoping and ordering of relations in a knowledge base
- Entity linking and disambiguation in large text corpora

Indian Institute of Technology, Kharagpur   May '14–Jun '14
Summer Research Intern, Dept. of Computer Science & Engineering
Mentor: Prof. Sudeshna Sarkar
- Implemented DBSCAN algorithm to find traffic stoppage points and segmented roads based on their speed profiles – automatic profiling of drivers
- 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 at http://dataweave.in/apis

Teaching Experience	**University of California**, Santa Cruz	Spring '18
	CMPS11 Intermediate Programming in Java [Evaluations]	
	University of California, Santa Cruz	Winter '17, '18
	CMPS140 Artificial Intelligence	

Current Project

Expert Identification — Oct '18-Present
Mentor: Prof. Lise Getoor — UC Santa Cruz
Identification of experts based on network topology, collaboration graphs and local features such as post strength, experience information, etc. We are working on StackExchange datasets and using Probabilistic Soft Logic for inference.

Survey On Data Programming — May '18- Jun '18
Mentor: Prof. Cormac Flanagan — UC Santa Cruz
Survey on the recent literature surrounding Data Programming.

Question Category Classification — Jul '15
Mentor: Prof. Manish Shrivastava — IASNLP, IIIT, Hyderabad
Question category classification on TREC data using topic composition features generated by LDA.

Detecting Fibrous Regions in Protein Sequences — Nov '13–May '14
Mentor: Dr. Smitha Nair — Manipal Institute of Technology, Manipal
Detection of fibrous regions in protein sequences using Support Vector Machines and Bee Colony Optimization for PCA.

Online competition: Photo Tagger – Multi-class classification — Mar '14
Leaderboard: 84 out of 644 — CSA, IISc, Bangalore
SVM whose parameters were optimized by GridSearchCV, to classify photos into various classes (people, cars, shoes, buildings, flowers).

Craigslist Post Classification — Oct '13
Accuracy: 81% — Manipal Institute of Technology, Manipal
Vectors created by bag of words model and then tf-idf, SVM to classify posts on Craigslist into sections based on the product description.

Past Projects
Link: https://dhawaljoh.github.io/research/projects/

Publications

Online Adspace Posts' Category Classification
Dhawal Joharapurkar, Vaishak Salin, Vishal Krishna
12th International Conference on Natural Language Processing, December, 2015

Talks

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

Honors

Regents' Fellowship, UC Santa Cruz — 2016–17

Online Courses

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

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

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