

Dhawal Joharapurkar



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<https://dhawaljoh.github.io>

Education

M.S Computer Science

M.S Project: User Expertise Detection in Online Communities

UC Santa Cruz | 2016-19

B.Tech. Computer Science

Bachelor Thesis: Temporal Scoping of Facts in a Knowledge Base

Manipal Institute of Technology | 2011-15

Honors

Regents' Fellowship

UC Santa Cruz | 2016-17

Publications

Online Adspace Posts' Category Classification

Dhawal Joharapurkar, Vaishak Salin, Vishal Krishna

12th International Conference on Natural Language Processing | 2015

Talks

From Big Text to Big Knowledge

SERC Open Day 2015

IISc, Bangalore | 2015

Teaching Exp.

Teaching Assistant [Evaluations]

CMPS5J, CMPS11, CMPS12A, CMPS140, CSE184

UC Santa Cruz | 2017-19

Mentorship

Mentor [CruzHacks, 2020]

Upcoming mentor for CruzHack projects

UC Santa Cruz | Jan, 2020

Work Experience

Summer '19 Amazon.com

Applied Scientist Intern

- Prediction of behavioral priors for item cold start problem using NN
- Replaced several GBDTs with a single multi-output NN that predicts behavioral priors

Summer '18 Lam Research

Intern

- Standardization of the Python development environment across business units
- Used NLP to augment existing ML systems by ingesting text from Lam Knowledge Documents.

Summer '17 Chobanian Group

Intern

- Expert identification in large delivery organizations
- Statistical Relational Learning approaches for expert identification

Jun-Jan'16 Xerox Research Centre India

Research Intern

- Analysis of clinical notes of ICU patients using Topic Models
- Created a plotting tool to highlight different statistics across classes

Dec-May'15 Indian Institute of Science

Project Trainee

- Temporal scoping and ordering of relations in a knowledge base
- Entity linking and disambiguation in large text corpora

Summer '14 Indian Institute of Technology

Intern

- Implemented DBSCAN algorithm to find traffic stoppage points and segmented roads based on their speed profiles
- Plotted the GPS points on Google Maps

Summer '13 DataWeave Software Pvt. Ltd.

Intern

- Created data crawlers using Python that aggregated and stored content in JSON dumps
- Made content available via APIs

Projects

Jun-Dec'18 User Expertise Detection in Online Communities

UC Santa Cruz

Identification of experts based on network topology, collaboration graphs and local features such as post strength, experience information, etc. Used StackExchange datasets and Probabilistic Soft Logic for inference.

May-Jun'18 Survey On Data Programming

UC Santa Cruz

Survey on the recent literature surrounding Data Programming.

Spring'17

Effects of Social Influences on Culinary Preferences

UC Santa Cruz

Modelled the influence of a friend network on the culinary choices of individuals. Predicted a person's favorite cuisine from social influences from their network and evaluated our model by comparing our predictions to the gold labels that are extracted from the text of the reviews in the Yelp dataset.

Winter'17

Ideology-Backed Stance Classification

UC Santa Cruz

Improved an approach on jointly-modeling disagreement and stance in online debate forums by integrating ideology as a latent variable in the joint model. Improvement of a few percentage points over the baselines set by prior works. Created a new ideology corpus of around 1.5 million tweets by 645 official members of the U.S. Congress.

Past

Older Projects

<https://dhawaljoh.github.io/research/projects/>