

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]

UC Santa Cruz | Jan, 2020

Recent Experience

Summer '19 Amazon.com | Palo Alto, CA

Applied Scientist Intern

- Created model to rank new products in accordance to their projected activity and not rank lower because of lack of data
- Reduced deployment effort by 12.5% by substituting existing models with a single multi-output neural network

Summer '18 Lam Research | Fremont, CA

Intern

- Standardization of the Python development environment across business units
- Reduced integration costs by ~30% when merging codebases with acquired companies

Summer '17 Chobanian Group | San Jose, CA

Intern

- Statistical Relational Learning model to identify experts in large delivery organizations for customer support case assignment
- Improved case resolution times by 45% in sample subset of 10K cases by reduction of case re-routing by 82%

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

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 dataset with ~5M users and Probabilistic Soft Logic for inference. Predicted "accepted answer" with an accuracy of 87%.

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. Predicted the correct cuisine with an accuracy of 94% and recall of 97%.

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. Improved existing baseline results by 2.5%. Created a new ideology corpus of around 1.5 million tweets by 645 official members of the U.S. Congress.

Other

Other Projects

<https://dhawaljoh.github.io/2019/projects/>

Miscellany

- Active beta-tester for Notability and Todoist
- Contributed to development of Notion, Microsoft To Do

Skills

- Programming Languages: Python, Java
- Operating Systems: Microsoft Windows, Unix-based operating systems
- Specialization: Machine Learning, Data Science, Analytics