VRAJ SHAH

3230 EBU3B CSE Phone: (+1) 858-291-2697 Email: vps002@eng.ucsd.edu 9500 Gilman Drive Web: linkedin.com/vraj La Jolla, CA 92093

EDUCATION University of California, San Diego, CA Sept 2016 - Present

PhD (In transfer from MS), Computer Science. GPA: 3.74/4.

Thesis Advisor: Arun Kumar

Indian Institute of Technology, Indore, India

Aug 2012 - June 2016

Bachelor of Technology, Computer Science & Engineering.

Major GPA: 9.47/10.

EXPERIENCE Graduate Student Researcher

Sept 2016 - Present

University of California, San Diego

• SpeakQL: Developing a system for making spoken SQL querying effective and efficient. The speech driven interface allows the users to query in any domain with infinite vocabulary using interactive query correction.

Project Website: https://adalabucsd.github.io/speakql

• Hamlet: Analyzed the accuracy effects of joins on machine learning algorithms, when learning over normalized data to improve performance and usability for analysts. Project Website: https://adalabucsd.github.io/hamlet

Software Engineer, Intern

June 2017 - Sept 2017

Infor Corporation

• Worked with the analytics team to integrate machine learning algorithm - neural networks inside the existing LogicBlox forecasting engine.

Research Assistant

May 2015 - July 2015

University of Alberta, Canada

- Developed a Big Data Adaptor as Eclipse plugin which efficiently handles GitHub's data dump. The tool makes the data more appropriate for a variety of downstream purposes like analytics.
- Developed a tool in python that identifies influential communities in social network platforms like Twitter, GitHub and Stack Overflow to design effective advertisement campaigns.

PUBLICATIONS Are Key-Foreign Key Joins Safe to Avoid when Learning High Capacity Classifiers? Vraj Shah, Arun Kumar, Xiaojin Zhu.

In Proceedings of Very Large Data Bases Conferences, VLDB 2018.

SpeakQL: Towards Speech-driven Multi-modal Querying. Dharmil Chandarana, Vraj Shah, Arun Kumar, Lawrence Saul.

In Proceedings of Human In Loop Data Analytics, SIGMOD 2017.

GitHub's Big Data Adaptor: An Eclipse Plugin.

Ali Sajedi, Vraj Shah, Eleni Stroulia.

In Proceedings of 25th Annual International Conference on Computer Science and Software Engineering. IBM CASCON 2015.

PROJECTS

Amazon Helpfulness Prediction: Developed a recommender system for Amazon reviews using random forest regressor that predict whether the review of an item will be considered helpful.

Real Time Twitter Opinion Mining and Visualization: Used nave Bayes Classifier and Dictionary based approach to perform sentiment analysis of government policies posted on Twitter. Handled challenging scenarios like sarcasm with more than 70 % accuracy.

Open Access Academic Journal System: Developed a web-based journal management and publishing system that allows submission of articles through a peer review process.

SKILLS Languages: C, C++, Java, Python, R, SQL.

Web Development: HTML, CSS, JavaScript, PHP.

Tools and Libraries: Scikit-learn, Keras, Tensorflow, Matlab, Eclipse, Git.

AWARDS Microsoft Travel Award to attend SIGMOD 2017.

University of Alberta Research Experience program honor for poster presentation at

University of Alberta International Research Symposium 2015.

MITACS Globalink Research Award 2015.

DAAD WISE fellowship 2015.

POSTERS Are Key-Foreign Key Joins Safe to Avoid when Learning High Capacity Classifiers?

UCSD Research Expo

SpeakQL: Towards Speech-driven Multi-modal Querying.

2017

2017

2015

June 2017

ACM SIGMOD

GitHub's Big Data Adaptor: An Eclipse Plugin.

University of Alberta Research Symposium

TALKS SpeakQL: Towards Speech-driven Multi-modal Querying.

ACM SIGMOD, UCSD Database Seminar.

REFERENCES Arun Kumar

Assistant Professor, University of California, San Diego

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