

Rohit Dholakia

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https://github.com/a7x

Education

- Sept 2012–Jan 2014 (Expected) **MSc in Computing Science**, *Simon Fraser University*, British Columbia, Canada, *3.6/4.0*.
Under the guidance of Dr. Anoop Sarkar, I have been working on improving translation models for low-resource languages. Specifically, my thesis is an empirical and qualitative study of Triangulation in a real low-resource scenario, using Haitian-Creole.
- 2006–2010 **B. Tech in Computer Science**, *SASTRA University*, Tamilnadu, India, *7.98/10.0*.
Under the guidance of Dr Sairam, I implemented Collaborative filtering algorithms for the MovieLens dataset, and also incorporated some of the findings of the Netflix prize

Projects

- Fall 2012 **Haitian-Creole Machine Translation**
Extensive results on the feasibility of efficient Machine Translation for noisy Haitian-Creole SMS
Mentor: Dr. Anoop Sarkar, Natural Language Lab, SFU
Language: Python
- Spring 2012 **Mining StackExchange**
Mined complete StackExchange dump(22G). Found that majority of users stop contributing after attaining a badge, average time to answer is low all across stackexchange.
Mentor: Dr. Jian Pei, Data Mining Lab, SFU
Language: Python
- Spring 2012 **Large-scale Truecasing using Distributed Language Models**
Proved that Redis can handle more than 200 concurrent clients answering several language model queries swiftly. Language Model used was gigaword generated using 1200 million words
Mentor: Dr. Arrvindh Shriraman, Systems Lab, SFU
Language: Python
- Summer 2013 **Implementing core algorithms of Machine Translation**
IBM Models, Decoding, Reranking and Evaluation metrics
Mentor: Dr. Anoop Sarkar, Natural Language Lab, SFU
Language: Python

Work Experience

- Fall 2012 - Present **Research Assistant** : Natural Language Lab, SFU
- Summer 2013 **Teaching Assistant** : CMPT 300 - Operating Systems
- July, 2011 - June, 2012 **Software Developer**, *MoveInSync Technologies*, Hyderabad.
 - Designed, implemented and deployed an end-to-end automation framework using Selenium 2 to build, test and deploy the product for every build.
 - Designed, and implemented a multi-threaded Java application to simulate large workloads for the application with the aim of finding loopholes that only come up at scale
- July, 2010 - May, 2011 **Project Associate**, *SIEL*, IIIT Hyderabad.
 - Led a Nokia-funded project to develop and deploy small yet accurate CRF models to enable short messages in 6 major Indian languages, on MeeGo platform using only 128MB of RAM
 - Improved transliteration engine of a cross-lingual search engine for Indian languages, using large-scale CRF models. Brought accuracy from 60% to more than 75% for all the languages.

Awards

- Graduate Fellowship Fall 2013

Technical Skills

- Languages C, Java, Python, SQL
- Toolkits Moses, Kriya, Eclipse, Redis

Coursework

Big Data Mining, Algorithms, Natural Language Processing, Multi-Core Systems, Machine Translation