

Rohit Dholakia

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Research Interest

Machine Translation, large-scale language modeling

Education

- Sept 2012–Jan 2014 (Expected) **MSc in Computing Science**, *Simon Fraser University*, British Columbia, Canada, *3.5/4.0*.
Under the guidance of Dr. Anoop Sarkar, I have been working on improving translation models for low-resource languages. We have made some non-trivial improvements to BLEU scores using various approaches for Haitian-Creole for real-world SMS sent in aftermath of a deadly 2010 earthquake in Haiti
- 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 Using Triangulation to translate from Haitian-Creole to French via English
Mentor: Dr. Anoop Sarkar, Natural Language Lab, SFU
Language: Python
- Spring 2012 Mining StackExchange
Mentor: Dr. Jian Pei, Data Mining Lab, SFU
Language: Python
- Spring 2012 Large-scale Truecasing using Distributed Language Models
Mentor: Dr. Arrvindh Shriraman, Systems Lab, SFU *Language*: Python
- Summer 2013 Implementing core algorithms of Machine Translation
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.

Technical Skills

Languages C, Java, Python, SQL

Coursework

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

References

Available upon request