Rohit Dholakia

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Education

Sept 2012–Dec 2013 (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