

Ratish Puduppully

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RESEARCH INTERESTS

Aspiring to conduct research in the field of Natural Language Processing (NLP). Research interests include Natural language generation, Linearization, Representation learning and Semantics.

EDUCATION

MS in CSE by Research IIIT Hyderabad Grade: 9.33 CGPA	February 2017
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B.E in Electronics and Telecommunications Mumbai University, Mumbai Grade: 69% (Equivalent to A grade)	June 2005
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HONORS

Travel Grant from Microsoft for presenting paper at NAACL conference in San Diego, US	June 2016
JRD Tata Scholarship for Academic Excellence	2002-04

INDEPENDENT COURSEWORK

NLP by Prof Michael Collins- Columbia University on Coursera platform	Apr 2013
ML by Prof Andrew Ng- Stanford University on Coursera platform	Apr 2013
CS 712 -Topics in Natural Language Processing at IIT Bombay	June 2014
CS 726- Advanced Machine Learning at IIT Bombay	June 2014

PUBLICATIONS

- “Transition based Deep Linearization”- Ratish Puduppully, Yue Zhang and Manish Shrivastava. European Association for Computational Linguistics (EACL) 2017 (to appear)
- “Transition based Syntactic Linearization with Lookahead Features”- Ratish Puduppully, Yue Zhang and Manish Shrivastava. Conference of the North American Chapter of the Association for Computational Linguistics – Human Language Technologies (NAACL-HLT) 2016
- “Brahmi-Net - An online system for transliteration and script conversion for Indian languages” - Anoop Kunchukuttan*, Ratish Puduppully* and Pushpak Bhattacharyya. Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT): System Demonstrations . 2015. *- Equal Contribution
- “Merging Verb Senses of Hindi WordNet using Word Embeddings” - Sudha Bhingardive, Ratish Puduppully, Dharendra Singh and Pushpak Bhattacharyya. International Conference on Natural Language Processing (ICON 2014), Dec 2014
- “The IIT Bombay SMT System for ICON 2014 Tools Contest” - Anoop Kunchukuttan, Ratish Puduppully, Rajen Chatterjee, Abhijit Mishra, Pushpak Bhattacharyya. International Conference on Natural Language Processing (ICON 2014), Dec 2014

PATENTS

- Method and system of sharing content- Ben Willis, Sunil Natraj, Abhijeet Shinde, Tarun Agarwal, Ratish Puduppully, Santhi Swaroop Pulagala, Shu-Hua Chang
Patent Office: USA
Application no: 9256695
Date of patent grant: February 9, 2016

RESEARCH EXPERIENCE

IIT Bombay

May 2014- Dec 2014

Research Engineer at Center for Indian Language Technology (CFILT) lab under guidance of Prof. Pushpak Bhattacharyya. Couple of research projects I participated in:

- Merging fine senses of Hindi WordNet- Long paper accepted in ICON 2014
 - Used word representations to compare fine grained word senses
 - If the similarity is within a tuned threshold, they are merged
- Phrase based SMT system enhancements- Work accepted in SMT Tools Contest at ICON 2014
 - Used innovative techniques such as source side reordering, unsupervised morphology splitting and unsupervised transliteration mining.
 - These techniques resulted in an increase in translation score by 6 points compared to the baseline system

Singapore University of Technology and Design (SUTD)

May 2015- Jul 2015

Research Intern at NLP Lab in SUTD under guidance of Prof. Yue Zhang. I worked on Linearization and Natural Language Generation.

INDUSTRY EXPERIENCE

Saba Software, Mumbai

May 2008 – May 2014

Technical Architect, Research division

- Part of team which created online collaboration software SabaCloud
- Created ResumeParser which parses CV/Resume and extracts company name, job role, duration and skills and renders the details in a timeline format
- Built Framework for Social Network Analysis and its Visualization. This is also known as Dynamic Network Analysis(DNA)

Infosys Technologies Ltd

Sept 2005 – May 2008

Software Engineer

- Part of Architecture Team for Finacle Banking Product
- Created several key architectural components for Finacle

TECHNICAL SKILLS

- Programming language: Java, Python, C++
- Others: Moses, Matlab, NLTK

PERSONAL DETAILS

Date of birth: 2 April, 1983

Address: Puduppully house, Thottipal Pallam, Thrissur, Kerala - 680310

Languages: English, Hindi, Marathi, Malayalam