

## **Ratish Puduppully**

MS in CS by Research student at IIIT Hyderabad

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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

December 2016 (expected)

B.E in Electronics and Telecommunications

Mumbai University, Mumbai

Grade: 69%

June 2005

### **HONORS**

Travel Grant from Microsoft for presenting paper at NAACL conference in San Diego, US

JRD Tata Scholarship for Academic Excellence

June 2016

2002-04

### **INDEPENDENT COURSEWORK**

NLP by Prof Michael Collins- Columbia University on Coursera platform

ML by Prof Andrew Ng- Stanford University on Coursera platform

CS 712 -Topics in Natural Language Processing at IIT Bombay

CS 726- Advanced Machine Learning at IIT Bombay

Apr 2013

Apr 2013

June 2014

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 sytem 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: Room no 437, New Boys Hostel, IIIT Hyderabad, Hyderabad - 500032

Languages: English, Hindi, Marathi, Malayalam