Ratish Puduppully

MS in CS by Research student at IIIT Hyderabad

phone: +91 9703304286
email: ratish.surendran@research.iiit.ac.in
webpage: https://sites.google.com/site/ratishiiith

RESEARCH INTERESTS

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

EDUCATION

MS in CSE by Research
IIIT Hyderabad   December 2016 (expected)
Grade: 9.33 CGPA

B.E in Electronics and Telecommunications
Mumbai University, Mumbai   June 2005
Grade: 69%

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. Under review at European Association for Computational Linguistics (EACL) 2017
- "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, Dhirendra 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

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)
- Created PeopleQuotient or PQ score to measure online influence in SabaCloud
- Built Activity Stream for personal network feeds. Used Mongo datastore to store the feeds

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++
- Databases: MySQL, Oracle, MongoDB
- Web Technologies: Spring Application Stack, Javascript, HTML
- Platform: Unix, Microsoft Windows
- Others: Moses, Matlab, NLTK

PERSONAL DETAILS

Date of birth: 2 April, 1983
Address: Room no 338, New Boys Hostel, IIIT Hyderabad, Hyderabad - 500032
Languages: English, Hindi, Marathi, Malayalam