

Rahul Katragadda

B2-101, Vindhya Bhavan, IIIT Hyderabad.

rahul.katragadda@gmail.com

rahul_k@research.iiit.ac.in

+91-9885217001

Career Objective I am looking for a challenging research position where my academic research experience in *Information Access* related areas could be pursued further giving breadth to my research career.

Education

- ★ MS by Research in Computer Science, December 2009, IIIT Hyderabad.
- ★ B.Tech in Computer Science, 2006, Jawaharlal Nehru Technological University.

Experience

- ★ Independent Researcher. *Worked extensively on evaluating content and readability aspects of summaries.* July 2009 - Till date.
- ★ As Research Assistant in Search and Information Extraction Lab, Language Technologies Research Center, IIIT Hyderabad. November 2006-May 2009.
- ★ As Research Assistant in the CoSCo group, Helsinki Institute of Information Technology, University of Helsinki. June 2007 - September 2007.

Research Interests

Automated Text Summarization, Information Retrieval and Extraction, Opinion Mining and Interactive Information Access.

Publications

1. **Rahul Katragadda and Vasudeva Varma, “Query-Focused Summaries or Query-Biased Summaries ?”** In the proceedings of the Joint conferences of the 47th annual meeting of the Association of Computational Linguistics (ACL) and the 4th International Joint Conference on Natural Language Processing (IJCNLP), ACL-IJCNLP 2009.
2. **Ravikiran Vadlapudi and Rahul Katragadda, “On Automated Evaluation of Readability of Summaries: Capturing Grammaticality”.** In the proceedings of Human Language Technologies: The 2010 Annual Conference of the North American Chapter of the Association for Computational Linguistics, NAACL-HLT 2010.
3. **Ravikiran Vadlapudi and Rahul Katragadda, “Quantitative Evaluation of Grammaticality of Summaries”.** In the proceedings of Computational Linguistics and Intelligent Text Processing, 10th International Conference, CICLing 2010.
4. **Rahul Katragadda, “GEMS: Generative Modeling for Evaluation of Summaries”.** In the proceedings of Computational Linguistics and Intelligent Text Processing, 10th International Conference, CICLing 2010.
5. **Rahul Katragadda, “On Alternative Automated Content Evaluation Measures”.** In the working notes of the annual meeting of Text Analysis Conference (TAC) 2009.
6. **Rahul Katragadda, Prasad Pingali and Vasudeva Varma, “Sentence Position revisited: A robust light-weight Update Summarization ‘baseline’ Algorithm”.** In the proceedings of the HLT-NAACL workshop on cross language information access (CLIAWS3). [Also accepted as a short student paper at NODALIDA 2009.]
7. **Vasudeva Varma, Prasad Pingali, Rahul Katragadda and Others, “IIIT Hyderabad at TAC 2008”.** In the working notes of Text Analysis Conference (TAC) at the joint meeting of the annual conferences of TAC and TREC.
8. **Prasad Pingali, Rahul Katragadda and Vasudeva Varma, “IIIT Hyderabad at DUC 2007”.** In the working notes of DUC at the annual meeting of Document Understanding Conferences (DUC) co-located with HLT-NAACL-2007.

Publications in Preparation/Submission

1. **Rahul Katragadda, “The role of Parts-of-Speech in automated summarization evaluations”.**
In preparation to be submitted at a major venue.
2. **Rahul Katragadda, “YADE: Yet Another Dependency Evaluation for text summaries”.** In submission.

MS Thesis titled “Automated Text Summarization: On baselines, query-bias and evaluations!”

- ★ Based on empirical evidence we argue that the state-of-the-art automated summarization systems are biased towards repetition of query-terms, and that the notion of relevance or query-focus is perhaps missing.
- ★ We describe a ‘sentence position’ based baseline algorithm for Update Summarization and argue that to study the progress in the state-of-the-art a stronger baseline, than the ones currently being used, must be used; and that the position baseline serves the purpose.
- ★ We provide a generic framework for a language modeling based approach to update summarization where we introduced the usage of *signature terms* for *context adjustment* of language models.
- ★ We proposed an ‘evaluation framework’ based on *generative modeling paradigm* where we describe a ‘multinomial model’ based generative model built on the distribution of key-terms in document collections and their likelihood of being captured by peer summaries.

Related Projects

- ★ Currently working on the creation of automated summarization evaluation for content responsiveness and readability aspects of summaries.
- ★ Tried to create a training corpus for ‘learning to summarize’ using the pyramid annotations (evaluation) data.
- ★ Studied the impact of “sentence simplification” in text summarization. (Guided two students towards their B.Tech Project)
- ★ Studied the role of stopwords and numbers in assessing granularity of a summary using language modeling framework. (Course Project: NLP Applications)
- ★ Created a redundancy filter based on linguistic cues & heuristics for the DUC 2007 submission of IIIT Hyderabad. (Course Project: Information Extraction and Retrieval)

Other Projects

- ★ Studied N-gram search based techniques for generating large corpora of semantically comparable sentences. The larger goal of the project was to automatically learn sentence simplification rules from such huge corpora. (**4-Credit** Project. **Advisers:** Dr Vasudeva Varma and Dr Prasad Pingali.)
- ★ A feature based recommendation system for e-commerce websites.
(**Course Project:** Web data and Knowledge Management. **Adviser:** Dr P. K. Reddy)
- ★ Mining the chess data set: We obtained association rules for all un-seeded players’ strategy when they opened the game and play against grand masters level players.
(**Course Project:** Data Mining. **Advisers:** Prof Kamalakar Karlapalem and Ms Lini Thomas)
- ★ Online classification of data streams using Artificial Neural Networks.
(**Term Paper:** Data Mining. **Adviser:** Ms Lini Thomas)

Advanced Coursework

Information Extraction and Retrieval, Natural Language Processing Applications, Data Mining and Warehousing, Web data and Knowledge Management, Pattern Recognition, Artificial Neural Networks.

Conferences Attended

IJCAI-07 (Student Volunteer), ACL-IJCNLP-2009, EMNLP 2009, IJCNLP-08, ICON-07, ICON-2008, ICON-2009.

Workshops Attended

MSR Summer school on NLP - 2007; Workshop on *Cross Language Information Access* 2007, 2008; workshop on *Language Generation and Summarisation* - 2009.

Technical Skills

- ★ **Programming Languages Used:** C, Java
- ★ **Scripting Languages Used:** Shell Scripting, awk, perl, python
- ★ **Development Environments:** Netbeans

Awards and Achievements

- ★ Paper accepted at 47th annual meeting of the Association of Computational Linguistics, ACL-IJCNLP-2009.
- ★ Cleared the Graduate Aptitude Test in Engineering (GATE) with a percentile score of 97.12.
- ★ Our design for a “Dynamic scheduling model for RTC” reached final round of iTalent-2005 organized by Confederation of Indian Industries (CII).
- ★ Part of the best programming team (of two members) twice during 2003-2005 at CVR College of Engineering.
- ★ Awarded a merit certificate with bronze medal for securing 3rd place in Senior Secondary (12th Class) with 84.4%.
- ★ Awarded merit certificate for top scoring in “Informatics Practices” with 98 out of 100 during Senior Secondary.

Extra Curricular Activities

- ★ Captained IIIT Football Team for 2 years, winning 2 Gold and 1 silver in 4 tournaments and losing just 2 matches in the process. I also boast of an amazing 13 match winning streak as a captain.
- ★ As an athlete I have won several Gold, Silver and Bronze medals in track and field events throughout the 3 years at IIIT-H.
- ★ I hold a **Black belt** in the martial art of Karate. I have won several sparring contests during my training.
- ★ I am in the process of writing my first short novel titled ‘*Trigger*’. A shorter version of the novel has appeared on my blog and I have been widely appreciated among my audience.

References Available upon request.