$IrshadAhmad\ Bhat\ |\ Curriculum Vitae$

Haseen Manzil Apartments, Doopanahalli, HAL 2nd Stage, Bengaluru India, 560008

(+91) 7893940615 • ☑ irshad.bhat@active.ai
https://irshadbhat.github.io

Education

Master's in Computer Science and Engineering

IIIT-H Gachibowli

Bachelor's in Computer Science and Engineering

Govt. College of Engineering and Technology

Jan. 2015-July 2018

Hyderabad, India

Sept. 2010-Aug. 2014

Jammu, India

Work Experience

Bengaluru, India

Active Intelligence LLP

Feb. 2018-Present

Research Scientist

• NLU/NLG for Virtual Assistants:

As part of NLU/NLG team, I work on sequence-to-sequence models for dynamic response reformulation, paraphrasing, machine translation etc. I also work on adapting statistical parsers to conversational data and utilizing parse tree information in novel frameworks for slotfilling, relation extraction etc.

MS Thesis

Title: Universal Dependency Parsing of Hindi-English Code-switching

Supervisor: Dr. Manish Shrivastava

Research Interests

Syntactic Parsing: Application of fast and efficient transition-based parsing algorithms for syntactic analysis of monolingual and code-switching texts.

Sequence-to-Sequence Models: Application of sequence-to-sequence models for dynamic response re-formulation, paraphrasing, machine translation etc.

Courses

Artificial Neural Networks: under Prof. B. Yegnanarayana – GRADE A-

Natural Language Processing: under Dr. Manish Shrivastava – GRADE A

Statistical Methods in AI: under Prof. Bapi Raju – Grade A

Optimization Methods: under Dr. Kannan Shrinathan - GRADE B-

Machine Learning: under Prof. C. V. Jawahar – GRADE A

Teaching Experience

Teaching Assistant at IIIT Hyderabad

• 2015: Statistical Methods in AI (CSE471)

Language Resource Contributions

2014-present

Hindi-Urdu Treebanking Project:

As an RA for Hindi-Urdu treebanking project, I have been maintaining the annotation pipeline of the Urdu dependency treebank. The work mainly involves creating and assigning annotation tasks to the annotators.

Universal Dependencies:

My contributions include addition of datasets with Universal Dependencies for Code-Switching Hindi-English and movie scripts.

Neural Stacking Dependency Parsers for Code Switching texts::

Neural Stacking Dependency Parsers for monolingual, multilingual and code switching data. This repository contains the source code described in our paper Universal Dependency Parsing for Hindi-English Code switching (NAACL 2018). (https://github.com/irshadbhat/nsdp-cs)

Google Summer of Code 2016 (GSoC):

I worked for Libindic organization under the Google Summer of Code 2016 and contibuted towards automatic script transliteration between scheduled languages of India including English. (https://github.com/libindic/indictrans)

Professional Services

Reviewing

o Primary Reviewer:

ICON

Secondary Reviewer:

CONLL

Technical Qualifications

Programming: PYTHON, C, C++, PERL, SHELL SCRIPTING, JAVA SCRIPT

Protocols: LATEX, HTML, XML, JSON, CSS

Databases: MySQL

Editors: VIM, NANO, EMACS

Publications

Journal Articles 2015

• Riyaz Ahmad Bhat, IRSHAD AHMAD BHAT and Dipti Misra Sharma. *Improving Dependency Parsing of Hindi and Urdu by Modeling Syntactically Relevant Phenomena*. ACM Transactions on Asian and Low-Resource Language Information Processing (TALIP).

• Riyaz Ahmad Bhat, IRSHAD AHMAD BHAT, Naman Jain and Dipti Misra Sharma. *Bridging the Script and Lexical Barrier between Hindi and Urdu for Resource Sharing and Augmentation.* Natural Language Engineering (Conditional Acceptance).

Conferences Papers 2018

 IRSHAD AHMAD BHAT, Riyaz Ahmad Bhat and Manish Shrivastava, Dipti Misra Sharma. Universal Dependency Parsing for Hindi-English Code-switching. In Proceedings of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL) 2018, New Orleans, Louisiana.

Conferences Papers 2018

• Riyaz Ahmad Bhat, IRSHAD AHMAD BHAT, and Srinivas Bangalore. *The SLT-Interactions Parsing System at the CoNLL 2018 Shared Task. In Proceedings of the CoNLL 2018 Shared Task: Multilingual Parsing from Raw Text to Universal Dependencies.*

2017

- Riyaz Ahmad Bhat, IRSHAD AHMAD BHAT and Dipti Misra Sharma. Leveraging Newswire Treebanks for Parsing Conversational Data with Argument Scrambling. In Proceedings of the 15th International Conference on Parsing Technologies (IWPT) 2017, Pisa, Italy.
- IRSHAD AHMAD BHAT, Riyaz Ahmad Bhat, Manish Shrivastava and Dipti Misra Sharma. *Joining Hands: Exploiting Monolingual Treebanks for Parsing of Code-mixing Data.* In Proceedings of the European Chapter of the Association of Computational Linguistics (EACL) 2017, Valencia, Spain.

2016

 Riyaz Ahmad Bhat, IRSHAD AHMAD BHAT and Dipti Misra Sharma. A House United: Bridging the Script and Lexical Barrier between Hindi and Urdu. The 26th International Conference on Computational Linguistics (COLING 2016).

2014

• IRSHAD AHMAD BHAT, Vandan Mujadia, Aniruddha Tammewar, Riyaz Ahmad Bhat and Manish Shrivastava. IIIT-H SYSTEM SUBMISSION FOR FIRE2014 SHARED TASK ON TRANSLITERATED SEARCH. The Forum for Information Retrieval Evaluation (FIRE 2014).

References

Prof. Dipti Misra Sharma: Professor, Language Technology Research Centre, International Institute of Information Technology, Hyderabad, Telangana, India. dipti@iiit.ac.in

Dr. Manish Shrivastava: Assist. Professor, Language Technology Research Centre, International Institute of Information Technology, Hyderabad, Telangana, India. m.shrivastava@iiit.ac.in

Dr. Radhika Mamidi: Associate Professor, Language Technology Research Centre, International Institute of Information Technology, Hyderabad, Telangana, India. radhika.mamidi.iiit.ac.in