

Simran KHANUJA

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EDUCATION

Aug' 2020 | Birla Institute of Technology and Science, Pilani, GOA, India
Aug' 2015 | B.E. (Honors) Computer Science; M.Sc.(Hons.) Economics, CGPA : 8.72/10.00

EXPERIENCE

- Present** | Microsoft Research, BANGALORE, India
Jul' 2019 | *Research Intern* | Advisors : [Dr. Sunayana Sitaram](#), [Dr. Monojit Choudhury](#)
- Currently working on experimenting with fine-tuning strategies for contextualized multilingual models using the XTREME benchmark as a test-bed.
 - Experimented with cross lingual word embeddings and multilingual generalized language models on a variety of downstream NLP tasks for code-mixed data. Eventually built a benchmark for the evaluation of models/methods that process code-mixed data, soon to be open-sourced. [ACL '20]
 - Proposed and oversaw the creation of a new dataset for the task of conversation entailment in code-mixed data, soon to be open-sourced. [CALCS@LREC '20]
- Aug' 2018** | MT-NLP Lab, IIIT HYDERABAD, India
May 2018 | *Summer Research Intern* | Advisors : [Dr. Dipti Misra Sharma](#) [Github Link]
- Worked on generating valid Hindi-English code-mixed data to improve the accuracy of a code-mixed language model. Similar methodology of generation implemented for Bengali-English. [TLT@ SyntaxFest '19]
 - Mainly used rule-based approaches wherein we chunk parallel sentences consistently and perform a post interleaving of the chunks based on head matching.
 - Tools worked with include the Stanford Parser, LTRC Hindi Parser and the GIZA++ word alignment tool.
- Nov' 2018** | BITS Pilani, K.K. BIRLA GOA CAMPUS, India
Aug 2018 | *Undergraduate Research Project* | Supervisor : [Dr. Sreejith V.](#) [Github Link] [Report Link]
- Implemented an Emotion Recognition System to recognize the emotional state of a patient. The final state is a weighted average of several parameters including facial expressions, speech signals and physiological signals including heart rate and breathing rate.
- Jul' 2017** | Liveweaver India Pvt. Ltd., PUNE, India
May 2017 | *Summer Intern* | NLP for Voice Recognition
- Performed basic NLP tasks including, morphological segmentation, coreference resolution, sentiment analysis and named entity recognition. Also worked with Elasticsearch for clustering, indexing paragraphs and calculating scores of similarity between the paragraphs.

PUBLICATIONS

- **GLUECoS : An Evaluation Benchmark for Code-Switched NLP**
2020 Annual Conference of the Association for Computational Linguistics (ACL '20)
[Simran Khanuja](#), Sandipan Dandapat, Anirudh Srinivasan, Sunayana Sitaram, Monojit Choudhury [pdf]
- **A New Dataset for Natural Language Inference from Code-mixed Conversations**
CALCS Workshop : International Conference on Language Resources and Evaluation, 2020 (LREC '20)
[Simran Khanuja](#), Sandipan Dandapat, Sunayana Sitaram, Monojit Choudhury [pdf]
- **Unsung Challenges of Building and Deploying Language Technologies for Low Resource Language Communities**
2019 International Conference on Natural Language Processing (ICON'19)
Pratik Joshi, Christain Barnes, Sebastin Santy, [Simran Khanuja](#), Sanket Shah, Anirudh Srinivasan, Satwik Bhattamishra, Sunayana Sitaram, Monojit Choudhury and Kalika Bali [pdf]
- **Dependency Parser for Bengali-English Code-Mixed Data enhanced with a Synthetic Treebank**
18th International Workshop on Treebanks and Linguistic Theories (TLT, SyntaxFest 2019)
Urmi Ghosh, Dipti Misra Sharma, and [Simran Khanuja](#) [pdf]

SKILLS

Languages	Python, C++, Java, HTML
Frameworks	PyTorch, NLTK
Tools	Visual Studio, Git, GIZA++, Stanford Parser, Elasticsearch
Courses	Machine Learning, Information Retrieval, Neural Networks, Data Structures and Algorithms, Design and Analysis of Algorithms, Object Oriented Programming, Probability and Statistics, Applied Econometrics, Mathematics and Statistics



HONORS AND AWARDS

- 2013 Secured an All India (National) Rank 1 in the 10th board examination, ICSE
- 2016 Received the institute's merit scholarship for the first semester

POSITIONS OF RESPONSIBILITY

- › Teaching Assistant for the course, "Financial Management".
- › Teaching Assistant for the course, "Applied Econometrics".
- › Core Member and Vocalist, Music Society BITS Goa.
- › Marketing Manager as part of DOSM for college fests in 2016.