

# Iknoor Singh

<https://iknoorjobs.github.io/>

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## Education

**The University of Sheffield**, Sheffield, UK

Sept 2020 - Present

Ph.D. in Computer Science

*Research Advisor:* Carolina Scarton and Kalina Bontcheva

*Award:* Fully Funded PhD Scholarship

**Panjab University**, Chandigarh, India

Sept 2016 - June 2020

Bachelor of Engineering (B.E.) with Honours, Information Technology

CGPA: 8.65/10.0

*Award:* Undergraduate Research Scholarship

## Experience

**Summer Intern - Agence France-Presse (AFP), Paris, France**

June - July 2021

Advised by Denis Teyssou

Currently working on a tool to detect language of text in memes as well as optical character recognition for non-latin languages to assist fact-checkers in debunking visual claims and further use this for automated multimodal misinformation detection using previously fact-checked claims aware model.

**Visiting Researcher - NLP Group, The University of Sheffield, UK**

Jan - July 2020

Advised by Kalina Bontcheva and Carolina Scarton

Developed scrapers for different fact-checking websites to build a COVID-19 disinformation corpus for exploratory analysis and to train a classification model. Also, developed a model for automated quote-source pair extraction from text. This project was funded by the European Commission H2020 WeVerify.

**Summer Intern - IBM Research Lab, India**

June- Sept 2019

Advised by Sumit Bhatia

As a part of IBM Global Remote Mentoring program, a political ideology detection corpus was developed to visually compare the sentiment scores of news articles belonging to different biases and partisanship.

**Research Intern - Queen's University Belfast, UK**

Jan - May 2019

Advised by Deepak Padmanabhan

Implemented different computational formulations of textual coherence using the state-of-the-art methods in natural language processing, to analyze the coherence of fake news articles vis-a-vis legitimate ones.

**Research Intern - Design Innovation Centre Lab, Panjab University**

June- Dec 2018

Advised by Naveen Aggarwal

Implemented text preprocessing pipeline for low-resourced Gurmukhi language script and utilised it for training clustering models on multi-domain Punjabi news dataset. Also worked on plagiarism detection for Punjabi language. This project was funded by MHRD (Indian Ministry of Human Resource Development).

## Publications

**Iknoor Singh**, Carolina Scarton and Kalina Bontcheva. "Multistage BiCross Encoder: Team GATE Entry for MLIA Multilingual Semantic Search Task 2.", *arXiv preprint arXiv:2101.03013* (2021). (Under Review)

Kokil Jaidka, Andrea Ceolin, **Iknoor Singh**, Niyati Chhaya, and Lyle Ungar. "WikiTalkEdit: A Dataset for

modeling Editors' behaviors on Wikipedia." In *Proceedings of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2021)*.

Xingyi Song, Johann Petrak, Ye Jiang, **Iknoor Singh**, Diana Maynard, Kalina Bontcheva "Classification Aware Neural Topic Model and its Application on a New COVID-19 Disinformation Corpus", *PLOS ONE Journal* 16(2): e0247086 (2021).

Kokil Jaidka, **Iknoor Singh**, Jiahui Liu, Niyati Chhaya and Lyle Ungar "A report of the CL-Aff OffMy-Chest Shared Task: Modeling Supportiveness and Disclosure", in *Proceedings of the 3rd Workshop on Affective Content Analysis @ AAAI (AffCon2020)*

**Iknoor Singh**, Deepak P and Anoop K, "On the Coherence of Fake News Articles", *Proceeding of ECML/PKDD 2020 News Recommendation and Analysis Workshop*. 2020

**Iknoor Singh**, Vijay Paul Singh and Naveen Aggarwal, "Comparative Study on Punjabi Document Clustering", in *International Conference on Communication and Intelligent Systems (ICCIS 2019)*

Pranav Shankar, Rajat Kaushal and **Iknoor Singh**, "Analyzing Varied Approaches for Forecast of Stock Prices by Combining News Mining and Time Series Analysis", in *IEEE International Conference on Computing, Power and Communication Technologies (GUCON 2019)*, India, 2019.

Akanksha Chuchra, **Iknoor Singh**, Vijay Paul Singh and Naveen Aggarwal, "Similarity Analysis & Plagiarism Detection for Punjabi Documents using NLP", in *Proceedings of the 11th Annual ACM India Compute Conference*, Chandigarh, India, 2018. (Poster)

## Personal Projects

### Automatic Evaluation

- Got **1st prize** in an international level hackathon conducted by IIT BHU.

Used natural language processing to build an app for automated assessment of subjective answers by checking the semantic similarity of the solution given by the user with that of the original correct answer in the database and compute marks.

### Crime Mapping and Prediction

- Got **3rd prize** from over 130 teams in a national level hackathon conducted by Nagarro.

Implemented an algorithm that takes safety as the constraint to compute the safest optimum path from one place to another. Also, deployed a supervised machine learning model for crime prediction at a particular place and at a particular time

### Search Through Video

- Got **1st prize** in a hackathon conducted by Panjab University, Chandigarh.

Developed an app to search through the video to find the exact time at which the sub-topic is being taught or discussed in a video. This prevents manual searching through long videos.

## Achievements and Awards

- ❑ **Scholarship** for working on a research project at my institute, as a part of research collaboration between Panjab University and King Abdulaziz University, Saudi Arabia.
- ❑ Got selected as **Microsoft Student Partner** for the academic year 2017-18.
- ❑ Team lead at **AIESEC**, the world's largest youth-run organization associated with the UN.
- ❑ Got **24th** rank in India in Code-n-counter competitive programming conducted by HackerEarth.
- ❑ Represented my school at **International CBSE Summit** 2014.
- ❑ **Shared Task Organizer** of Interactional Affect (The OffMyChest Shared Task) at the third Affective Content Analysis workshop@AAAI 2020 together with Adobe and the University of Pennsylvania.
- ❑ Active member of **SOREM** society (NGO), a Society for Rehabilitation of Mentally Challenged where I have been involved in various social events including teaching and helping the disabled children.