

# IKNOOR SINGH

4<sup>th</sup> Year B.E. Student

Information Technology Department

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## EDUCATION

Year	Degree	Institute	Percentage/CGPA
2016-2020	Information Technology Engineering (B.E.)	UIET, Panjab University	<b>CGPA=8.48/10</b> (Aggregate till 7 <sup>th</sup> semester)
2016	Class XII CBSE	Army Public School, Ambala Cantt	<b>95.6%</b> (Physics, Chemistry & Maths)

## EXPERIENCE

### The University of Sheffield, UK (Visiting Researcher)

**Jan 2020 - Present**

Currently working on EC funded H2020 WeVerify project under the guidance of Prof Kalina Bontcheva and Dr Carolina Scarton at Natural language processing Group, The University of Sheffield, UK.

### IBM Research Lab, India (Project Intern)

**Jun 2019-Sept 2019**

Worked as an IBM Global Remote Mentoring project intern on "Computational Identification of Political Ideology in Text" under the guidance of Dr Sumit Bhatia, IBM Research AI, India.

### Queen's University Belfast, UK (Research Intern)

**Jan 2019-May 2019**

Worked as a remote intern under the guidance of Prof Deepak Padmanabhan, Queen's University, on the subject "Lexical coherence aspect of misinformation".

### Design Innovation Centre Lab, Panjab University (Research Intern)      **June 2018-Dec 2018**

Worked on plagiarism detection and clustering of documents in the Punjabi language under Prof Naveen Aggarwal. This project was sponsored by MHRD India to work on Indian dialects.

### Santulan Technologies (Summer Intern)

**May 2017-Aug 2017**

Santulan Technologies is an AI based startup. As an intern, I did research work on a project involving the use of machine learning in optical character recognition domain.

## PUBLICATIONS

Kokil Jaidka, Iknoor Singh, Jiahui Liu, Niyati Chhaya and Lyle Ungar "The CL-Aff #OffMyChest Shared Task:Results and Key Insights",in *Proceedings of the 3rd Workshop on Affective Content Analysis@AAAI 2020*

Iknoor Singh, Deepak P and Anoop K, "On the Coherence of Fake News Articles", in *New Generation Computing Journal*, 2019. (Under Review)

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

## PROJECTS

### Crime Mapping and Prediction

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. Got **3rd prize** from over 3000 participants in a hackathon conducted by Nagarro co.

### Search Through Video

Search through the video to find the exact time at which the sub-topic is being taught or discussed in a long monotonous video. This prevents manual searching through video and saves a lot of time. Got **1st prize** for this project in a hackathon conducted by Design Innovation Center, Panjab University.

### Automatic Evaluation

Automatic assessment of subjective answers using Natural Language Processing based evaluation. Built a web app to check the semantic similarity of the solution given by the user with that of the original answer written in the database and compute marks. Got **1st prize** for this project in a national hackathon conducted by IIT BHU.

## COMPUTER SKILLS

**Programming Languages :** C/C++, Python, SQL, HTML, CSS, JavaScript

**Interests:** Natural Language Processing, Machine Learning, Algorithms & Data Structures

**Platforms:** macOS and Windows

## ACHIEVEMENTS & LEADERSHIP EXPERIENCE

- ☐ Organising committee member of a **Shared Task on Interactional Affect** (The OffMyChest Shared Task) at the third Affective Content Analysis workshop@AAAI 2020 together with **Adobe** and the **UPenn**.
- ☐ **Monthly 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**.
- ☐ Competitive Programming. Got **24th rank** in India in Code-n-counter conducted by HackerEarth.
- ☐ An active member of **SOREM society (NGO)**. It's a Society for Rehabilitation of Mentally Challenged. I have been involved in various social events including teaching and helping the disabled children.
- ☐ Represented my school at **International CBSE Summit 2014**.