

IKNOOR SINGH

4th 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	CGPA=8.39/10 (Aggregate till 6 th semester)
2016	Class XII CBSE	Army Public School, Ambala Cantt	95.6% (PCM)

EXPERIENCE

The University of Sheffield, UK (Visiting Researcher)

Jan 2020 - Present

Currently working as an undergraduate researcher under the guidance of Professor Kalina Bontcheva at Natural language processing Lab, The University of Sheffield, England, 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 (Remote Intern)

Jan 2019-May 2019

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

Design Innovation Centre, Panjab University (Project Intern)

June 2018-Dec 2018

Worked on Similarity analysis and Plagiarism detection for Punjabi language using Natural language processing. This project was sponsored by MHRD India to work on Indian dialects.

Santulan Technologies (Summer Intern)

May 2017-Aug 2017

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

PUBLICATIONS

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 **Third prize** from over 3000 teams 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 **First 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 original answer written in the database and give marks accordingly. Got **First prize** for this project in a hackathon conducted by IIT BHU.

COMPUTER SKILLS

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

Interests: Machine Learning, Natural Language Processing, 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 University of Pennsylvania.
- ☐ Human subject research volunteer on a social media analysis project being done in collaboration with **NTU Singapore** and the **University of Pennsylvania**.
- ☐ 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.
- ☐ Coordinated events held in college. **Team lead** for organizing college fest events, Model United Nations, TED talks and many more.