

Iknoor Singh

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Experience

- Natural Language Processing (NLP) Group, University of Sheffield, UK** Mar 2022 – Present
Research Associate with GateNLP team Sheffield, UK
 - Contributed to multiple projects within a European Union-funded research initiative, developing a Chrome plugin, maintaining GATE cloud services, and participating in various other ML/DL research projects focused on misinformation detection. Delivered advanced tools and techniques for the benefit of fact-checkers.
- Amazon, London, UK** Sept 2022 – Dec 2022
Applied Scientist Intern (L5) with Alexa Knowledge SLU Team London, UK
 - Developed novel methods for generating and evaluating topical utterances, involving fine-tuning of large language models (LLMs) and utilizing Generative AI on Amazon AWS.
 - Contributed to the enhancement of team capabilities in natural language understanding and generation.
- University of Sheffield, UK** Jan 2020 – July 2020
Intern with Carolina Scarton and Kalina Bontcheva Sheffield, UK
 - Led the development of an end-to-end data science pipeline, encompassing problem definition, data scraping, exploratory data analysis (EDA), modelling, insights, and visualizations. This contributed to the successful development of a COVID-19 disinformation classifier, providing critical insights during the global crisis.
- IBM Research Lab, India** June 2019 – Sept 2019
Intern with Sumit Bhatia Delhi, India
 - Pioneered the creation of a political ideology detection corpus using data scraping.
 - Did exploratory data analysis to visually compare the sentiment scores of news articles with different biases and partisanship. This project was undertaken as part of IBM Global Remote Mentoring.
- Queen's University Belfast, Northern Ireland, UK** Jan 2019 – May 2019
Intern with Deepak Padmanabhan Belfast, UK
 - Implemented cutting-edge computational formulations of textual coherence using deep learning methods.
 - Analyzed the coherence of fake news articles, contributing to the understanding of disinformation dynamics.
- Ministry of Human Resource Development (MHRD), India** June 2018 – Dec 2018
Intern with Naveen Aggarwal Chandigarh, India
 - Implemented an end-to-end text preprocessing pipeline for the low-resourced Punjabi language.
 - Applied machine learning for clustering and plagiarism detection, directly benefiting Punjabi-speaking universities.

Education

- Doctor of Philosophy, PhD - Computer Science** Sept 2020 - April 2024
University of Sheffield, UK Sheffield, UK
 - Supervisors: Carolina Scarton and Kalina Bontcheva
 - Award: Fully-funded Doctoral Scholarship**
- Bachelor of Engineering with Honours - Information Technology** Sept 2016 - June 2020
Panjab University, Chandigarh, India Chandigarh, India
 - Award: Undergraduate Research Scholarship (4th year)**

Technical Skills

Languages: Python, C/C++, JavaScript, Groovy
ML/DL/AI Libraries: Scikit-learn, Transformers, TensorFlow, Keras, PyTorch, CUDA
Data Analysis: Pandas, Matplotlib, Seaborn, NumPy, BeautifulSoup, Elasticsearch
Web Development: HTML, CSS, JavaScript, Bootstrap, ReactJS, Gradio, Flask
Operating Systems and Others: Unix/Linux, AWS, Sagemaker, S3, EC2, MinIO, Git

Personal Projects

Automated Subjective Answer Assessment App | *Python, Semantic Similarity*

- Developed an innovative app for automated subjective answer assessment, leveraging semantic similarity for accurate marking against a comprehensive answer database.
- Secured **1st prize** in an international-level hackathon conducted by IIT BHU.

Crime Mapping and Prediction | *Supervised Machine Learning, Algorithm Optimization*

- Devised a safety-constrained algorithm for calculating the safest optimal path and implemented a supervised machine learning model predicting crime occurrences.
- Secured **3rd prize** out of 130+ teams in a national-level hackathon organized by Nagarro.

Search Through Video | *Python, Video Analysis*

- Developed a Python-based app for searching specific sub-topics within videos, enabling users to find the exact timestamp when a sub-topic is discussed without manual searching.
- Secured **1st prize** in a hackathon conducted by Panjab University, Chandigarh.

Responsibilities and Awards

- Tutored **100+** students as a **Teaching Assistant** for Text Processing modules COM4115 and COM6115 at the Department of Computer Science, University of Sheffield, UK (Fall 2021 semester).
- Got selected as **LxMLS Monitor** to tutor students during the lab sessions of the **Lisbon Machine Learning School**.
- **Reviewer** at multiple conferences including ICWSM, ACL, EMNLP, AAAI etc.
- Got selected for an **Undergraduate Scholarship** for working on a research project as a part of a research collaboration between Panjab University, India and King Abdulaziz University, Saudi Arabia.
- One among **120** students in India who got selected for the **Microsoft Student Partner program**.
- Team lead at **AIESEC**, the world's largest youth-run organisation associated with the **United Nations**.
- Got **24th** rank in India in Code-n-counter competitive programming conducted by HackerEarth.
- **Shared Task Organiser** of Interactional Affect (The OffMyChest Shared Task) at the third Affective Content Analysis workshop@AAAI 2020 together with Adobe and the University of Pennsylvania.
- One among four students who represented my school at the **International CBSE Summit 2014**.
- 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** disabled children.