

ASHWIN SINGH

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EXPERIENCE

Research Associate

Language Technologies Research Center & Precog

July 2021 – Present

IIIT Hyderabad

Head Teaching Assistant

CSE648: Privacy and Security in Online Social Media

Jan 2021 – May 2021

IIIT Delhi

- Designed coursework including assignments, quizzes and exams involving social media data collection, visualisation, statistical analysis, deriving inferences and machine learning.
- Graded student submissions and managing teaching assistants.

Lead UX Researcher and Designer

Seek Suspect, MIDAS Lab

Dec 2020 – June 2021

Delhi Police

- Lead the design of an AI-Based Image Retrieval System for the Delhi Police to identify suspects based on their facial characteristics.
- Advocated for fairness and mitigated disproportionate harm towards groups marginalised on the basis of caste and religion.

Research Intern

Vox Populi Research

May 2019 – July 2019

Gurgaon, Haryana

- Developed a desktop application using Qt on python to automate retrieval of geographical data, speeding up the project timeline by 4-6 months and reducing the expenditure by 80%.
- Generated clusters from a political data set based on statistical indicators and profiled them to make predictions for the upcoming elections.

PROJECTS

ForgetMeNot: Exploring Linkability on Social Media

Course Project | Privacy and Security in Online Social Media

Jan 2020 – May 2020

IIIT Delhi

- Investigated both user and platform specific vulnerabilities which result in linking the identity of a user across multiple platforms.
- Developed the pipeline for data collection [MongoDB, Python].
- Created data visualizations to present results and evaluation.

Ranking Groups of Collusive Online Reviewers

Laboratory for Computational Social Systems

July 2019 – Dec 2019

IIIT Delhi

- Implemented various graph representation learning algorithms from the literature for collusive group detection.
- Conducted experiments with matrix factorization approaches to learn latent embedding of collusive groups based on their activity.
- Evaluated results on three datasets [Yelp, Amazon, Playstore].

EDUCATION

B.Tech. in Computer Science and Applied Mathematics

IIIT Delhi

Aug '17 – June '21

CGPA: 8.73

Student Mentor for CS+Math Juniors

SKILLS

- Programming Languages

python

R

JAVA

- Tools & Frameworks

Github

MongoDB

Firebase

Plotly

Gephi

Tweepy

sklearn

Figma

- Research

EDA

Research Design

Surveys

Hypothesis Testing

Thematic Coding

COURSEWORK

- Privacy and Security in Social Media
- Anthropology of Social Media
- Human Computer Interaction
- Affective Computing
- Machine Learning
- Statistical Inference
- Stochastic Processes and Applications

PUBLICATIONS

- A. Singh and G. Eden. Hanging Out Online: Social Life during the Pandemic. In *INTERACT'21: Proceedings of the 18th International Conference promoted by the IFIP on Human-Computer Interaction*. Bari, Italy, September 2021.
- A. Singh and R. Jain. Kyro: Persuading students to be productive using a virtual companion. In *IndiaHCI'20: Proceedings of the 11th Indian Conference on Human-Computer Interaction (IndiaHCI 2020)*. ACM, New York, NY, USA, November 2020. [Link](#)

ACHIEVEMENTS

- Dean's List of Academics (2020, 2021)
- Accepted to the ACM Summer School on NLP sponsored by Microsoft, July 2021.