

□ +1 (206) 235-0729 | Sohamde@uw.edu | 😭 www.sohamde.in

EDUCATION.

University of Washington Seattle, USA

PHD IN INFORMATION SCIENCE Sep 2023 - 2028 (exp)

Ashoka University Sonepat, India

DIPASR: DIPLOMA IN ADVANCED STUDIES AND RESEARCH IN COMPUTER SCIENCE

· Graduated Magna cum Laude with the Best Capstone Thesis Award

BSc (Hons) IN COMPUTER SCIENCE | 3.89/4.0

• Graduated Magna cum Laude with a Gold Medal in Computer Science

WORK EXPERIENCE

University of Washington Seattle, USA

RESEARCH & TEACHING ASSISTANT Sep. 2023 - present

· Working with Martin Saveski on LLM-driven consensus and "bridging" algorithms for social media

· Conducting lab sessions and designing/grading assignments as a TA for Data Science for 40+ graduate students (Student Feedback: 4.6/5.0)

Microsoft Research Bangalore, India

RESEARCH INTERN Jul. 2022 - Dec. 2022

• Studied quantitative characteristics of propaganda spread in real-life online social networks

• Used a mix of statistical analysis and qualitative interviews to study disinformation and effectiveness of fact-checks

University of Michigan Remote

RESEARCH INTERN Dec. 2021 - Jun. 2022

· Analysed nature of interactions, polarization, and discourse among political influencers on Indian Twitter

• Used word embeddings, PCA, LDA, regression, clustering, and tools like Gephi

Pint AI (formerly Mediacred) Bangalore, India

ML RESEARCH INTERN May. 2021 - Oct. 2021

• Conducted exploratory research into ML interventions for fake-news detection

· Implemented a novel Twitter-based article recommendation engine that generates a curated news feed

MPhasis Lab (ML2CT) Sonepat, India

RESEARCH INTERN May. 2021 - Aug. 2021

• Implemented end-to-end PPML systems in C++ and Python on multiple large datasets

• Designed a novel algorithm for securely evaluating non-linear functions using arithmetic shares

Ashoka University Sonepat, India 3X UNDERGRADUATE TEACHING ASSISTANT Fall 2020, Fall 2021

TA for Foundations of Computer Programming, Computer Organisation & Systems and Software Debugging

 Conducted weekly discussion sections and office hours. Was responsible for designing and evaluating assignments for 200+ students across courses (Student Feedback: 4.75/5.0)

RESEARCH EXPERIENCE

ACADEMIC PUBLICATIONS

* means equal contribution | Citation statistics on Google Scholar

11. FeedSpan: A bridging-based prosocial feed reranking algorithm | 🏆 Winner (Top 3) Luke Thorburn, Soham De, Kayla Duskin, Hongfan Lu, Smitha Milli, Martin Saveski



Center for Human-Compatible AI

Ongoing

Aug 2022 - May 2023

Aug 2019 - May 2022

10. Supernotes: Driving consensus in crowd-sourced fact-checking

SOHAM DE, MICHIEL BAKKER, JAY BAXTER, MARTIN SAVESKI

9. Enhancing Crowd-Sourced Fact-Checking Using LLM-Driven Consensus

SOHAM DE, MICHIEL BAKKER, MARTIN SAVESKI

Major Conference [redacted] In submission

> IC^2S^2 2024 Link to slides

OCTOBER 22, 2024 SOHAM DE · CURRICULUM VITAE

8. Networks and Influencers in Online Propaganda Events: A Comparative Study of Three Cases in India

Anirban Sen, **Soham De**, Joyojeet Pal

7. Influence and Political Leaning of Overlap between Propaganda Communities

ANIRBAN SEN, SOUMYASIS GUN, SOHAM DE, JOYOJEET PAL

6. Social Media & Society in India

SOHAM DE, ARSHIA ARYA, DIVYA RAMESH, MEG YOUNG, JOYOJEET PAL

5. Experiences of Indian Journalists on Twitter in India | Y Best Poster Award

SOHAM DE*, SUKHNIDH KAUR*, JOYOJEET PAL

4. Sustaining Discourse in a Rumour Network on Twitter

SOHAM DE, ANIRBAN SEN, JOYOJEET PAL

3. Closed Ranks: The Discursive Value of Military Support for Indian Politicians on Social Media

AGRIMA SETH*, SOHAM DE*, ARSHIA ARYA, SUSHANT SINGH, STEVEN WILKINSON, JOYOJEET PAL

2. Note: Picking Sides: The #HijabBan discourse on Twitter

SOHAM DE, ANMOL PANDA, JOYOJEET PAL

1. DISMISS: Database of Indian Social Media Influencers on Twitter

Arshia Arya*, **Soham De***, Dibyendu Mishra*, Gazal Shekhawat* et al

HONORS & AWARDS

2024 Prosocial Ranking Challenge Winner, Center for Human-Compatible AI

2024 **Graduate Top Scholar Fellowship**, Information School, University of Washington

2023 Best Capstone Thesis Award, Department of Computer Science, Ashoka University

2022 **Gold Medallist**, Department of Computer Science, Ashoka University

2022 Undergraduate Research Excellence Award, Department of Computer Science, Ashoka University

2022 Service Excellence Award, Department of Computer Science, Ashoka University

2022 Recognition for Outstanding Contribution, Department of Computer Science, Ashoka University

2019-22 Dean's List (every semester), Dean of Academic Affairs, Ashoka University

OTHER ACTIVITIES

Social Media and Society in India Conference (SMSI)

STUDENT ORGANISER/ CHAIR

Organised the call for papers, poster presentation session, and guest invites for 2 years of the conference, hosted at the University of Michigan

ACM CHI, ACM CSCW, IC2S2

REVIEWER/ STUDENT VOLUNTEER

Peer-reviewed for various conferences and journals, such as the aforementioned. Student volunteer at CSCW 2023, 2024

CANDID Research Group

FOUNDER AND STAFF RESEARCHER

· Started and helped secure funding for a new CS research group at Ashoka University for Analysis on Social Networks

Academic Affairs Board

CS REPRESENTATIVE

· Worked with the Department of Computer Science, Ministry of Academic Affairs (SG) and the Academic Advisory Board

The CS Society

SKILLS

INTERIM PRESIDENT, HEAD OF DEVELOPMENT

Conducted bi-weekly Workshops and Events for 70+ active members on Web-Development and Machine Learning

Programming Python, R, C/C++, JavaScript, ŁTEX, Markdown, Assembly, SQL **Frameworks** PyTorch, Keras, Tensorflow, OpenCV, React, Express, Flask, git

Softwares Gephi, NetworkX, Docker, Tableau, Atlas.ti, MS Excel

REFERENCES

MARTIN SAVESKI JOYOJEET PAL **DEBAYAN GUPTA**

OCTOBER 22, 2024

MSAVESKI@UW.EDU JOYOJEET@UMICH.EDU DEBAYAN.GUPTA@ASHOKA.EDU.IN

PhD Advisor at University of Washington Advisor and collaborator on multiple studies Capstone project/thesis advisor at Ashoka University ACM CSCW 2024

Link to proceedings

ACM JCSS 2024

Link to proceedings

University of Michigan 2023 Link to proceedings

ACM SIGCHI HCI & Friends 2023

Link to poster

IC²S² 2023

Link to paper

ICTD 2022

Link to proceedings

ACM COMPASS 2022 Link to proceedings

AAALICWSM 2022

Link to proceedings

University of Michigan

Apr. 2023, Apr 2024

Multiple Locations

Ashoka University

Apr. 2022 - Dec. 2023

Ashoka University

Ashoka University

Feb. 2020 - Jun. 2022

Fall 2021, Spring 2021

2022 - 2024