

Soham De

CURRICULUM VITAE

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EDUCATION

University of Washington

PHD IN INFORMATION SCIENCE

Seattle, USA

Sep 2023 - 2028 (exp)

Ashoka University

DIPASR: DIPLOMA IN ADVANCED STUDIES AND RESEARCH IN COMPUTER SCIENCE

- Graduated Magna cum Laude with the Best Capstone Thesis Award

Sonepat, India

Aug 2022 - May 2023

BSc (HONS) IN COMPUTER SCIENCE | 3.89/4.0

Aug 2019 - May 2022

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

WORK EXPERIENCE

University of Washington

TEACHING & RESEARCH ASSISTANT

- TA for Data Science I to a class of 30+ graduate students

Seattle, USA

Sep. 2023 - present

Microsoft Research

RESEARCH INTERN

- Studied quantitative characteristics of propaganda networks in real-life social networks
- Used a mix of statistical analysis and qualitative interviews to study disinformation and effectiveness of fact-checks

Bangalore, India

Jul. 2022 - Dec. 2022

University of Michigan

RESEARCH INTERN

- Analysed nature of interactions, polarization, and discourse among political influencers on Indian Twitter
- Used word embeddings, PCA, LDA, regression, clustering, and tools like Gephi

Remote

Dec. 2021 - Jun. 2022

Pint AI (formerly Mediared)

ML RESEARCH INTERN

- Conducted exploratory research into ML interventions for fake-news detection
- Worked on Credibly - Mediared's flagship news credibility analyser
- Implemented a novel Twitter-based article recommendation engine that generates a curated news feed in $\mathcal{O}(1)$ time

Bangalore, India

May. 2021 - Oct. 2021

MPhasis Lab (ML2CT)

RESEARCH INTERN

- 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

Sonepat, India

May. 2021 - Aug. 2021

Ashoka University

2X UNDERGRADUATE TEACHING ASSISTANT

- TA for FC-0309 (Foundations of Computer Programming) and CS-1216 (Computer Organisation and Systems)
- Conducted weekly discussion sections and office hours. Was responsible for designing and evaluating assignments as well as conducting the Puzzle Day event
- Student feedback: 4.75/5.0 (180+ enrolled students)

Sonepat, India

Fall 2020, Fall 2021

RESEARCH EXPERIENCE

ACADEMIC PUBLICATIONS

* means equal contribution

[9] Enhancing Crowd-Sourced Fact-Checking Using LLM-Driven Consensus

SOHAM DE, MICHIEL BAKKER, MARTIN SAVESKI

IC2S2 2024

Upcoming

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

ANIRBAN SEN, **SOHAM DE**, JOYOJEET PAL

ACM CSCW 2024

Upcoming

[7] Influence and Political Leaning of Overlap between Propaganda Communities

ANIRBAN SEN, SOUMYASIS GUN, **SOHAM DE**, JOYOJEET PAL

ACM JCSS 2024

Upcoming

[6] Social Media & Society in India

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

University of Michigan 2023

[Link to proceedings]

[5] Experiences of Indian Journalists on Twitter in India (Best Poster Award)

SOHAM DE*, SUKHNIDH KAUR*, JOYOJEET PAL

ACM SIGCHI HCI & Friends 2023

[Link to poster]

[4] Sustaining Discourse in a Rumour Network on Twitter

SOHAM DE, ANIRBAN SEN, JOYOJEET PAL

IC2S2 2023

Non-archival

[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

ICTD 2022

[Link to pdf]

[2] Note: Picking Sides: The #HijabBan discourse on Twitter

SOHAM DE, ANMOL PANDA, JOYOJEET PAL

ACM COMPASS 2022

[Link to pdf]

[1] DISMISS: Database of Indian Social Media Influencers on Twitter

ARSHIA ARYA*, **SOHAM DE***, DIBYENDU MISHRA*, GAZAL SHEKHAWAT*, ANKUR SHARMA, ANMOL PANDA, FAISAL LALANI, PARANTAK SINGH, RAMARAVIND KOMMIYA MOTHILAL, RYNAA GROVER, SACHITA NISHAL, SALONI DASH, SHEHLA SHORA, SYEDA ZAINAB AKBAR, JOYOJEET PAL

AAAI ICWSM 2022

[Link to pdf]

MEDIA ARTICLES

[M2] Who are BJP's favorite journalists? What about Congress and AAP? A Michigan study reveals

SOHAM DE, JOYOJEET PAL

Newslandry

Nov 2022

[M1] Coordinated campaign? India #1 source for pro-Russia tweets amid Ukraine war, says Ashoka study

REGINA MIHINDUKULASURIYA, **SOHAM DE** (CANDID)

The Print & The FinePrint

May 2022

HONORS & AWARDS

- 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
- 2017 **National Finalist**, ICPC for Schools
- 2017 **All India Rank 7**, ICSE Board Exams

OTHER ACTIVITIES

Several Conferences

PEER REVIEWER

- **ACM CHI** 2024
- **ACM CSCW**: 2022, 2023, 2024
- **IC2S2**: 2023, 2024

Social Media and Society in India Conference

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

University of Michigan

Apr. 2023, Apr 2024

The CrossThink Journal

GENERAL CHAIR

- Started Ashoka University's first interdisciplinary CS Journal with a team of 12 student reviewers

Ashoka University

Aug. 2022 - Dec. 2022

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

Ashoka University

Apr. 2022 - Dec. 2023

Academic Affairs Board

CS REPRESENTATIVE

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

Ashoka University

Fall 2021, Spring 2021

The CS Society

INTERIM PRESIDENT, HEAD OF DEVELOPMENT

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

WiCS Research Reading Group

MEMBER, PRESENTER

- Presented multiple ML papers (from NIPS, ICLR, PRML etc) to senior undergraduate and Ph.D. Students at Ashoka University

Ashoka University

Feb. 2020 - Jun. 2022

Ashoka University

Aug. 2020 - Jun. 2022

SKILLS

Programming	Python, C/C++, JavaScript, \LaTeX , R, Markdown, Assembly, SQL
Frameworks	React, Express, Flask, git, Keras, Tensorflow, OpenCV
Softwares	Gephi, NetworkX, Tableau, Atlas.ti, MS Excel
Languages	English, Bengali, Hindi

REFERENCES

MARTIN SAVESKI	MSAVESKI@UW.EDU	PhD Advisor at University of Washington
JOYOJEET PAL	JOYOJEET@UMICH.EDU	Advisor and collaborator on multiple studies
DEBAYAN GUPTA	DEBAYAN.GUPTA@ASHOKA.EDU.IN	Capstone project/thesis advisor at Ashoka University