

Aatman Vaidya

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Education

Jul 2023	Ahmedabad University	Ahmedabad, India
Aug 2019	B.Tech in Computer Science & Engineering (CSE) Thesis: Modelling the spread of Hate Speech on Twitter Advisors: Prof. Amit Nanavati, Dr. Seema Nagar	

Experience

Present	Tattle Civic Tech	Remote
Aug 2023	Software Development Engineer - I and Data Engineer Advisors: Tarunima Prabhakar, Denny George → I help build citizen centric open-source tools and datasets to understand and respond to inaccurate and harmful content. → I help build a browser extension Uli , that redact's slurs and abusive content, archive's problematic content, and collectively pushes back against online gender-based violence . Uli de-normalizes everyday violence that people of marginalized genders experience online in India. [Media Coverage: UNFPA Report] → I lead the development of Feluda , a configurable engine for analyzing multilingual and multimodal content. Feluda helps fact-checkers and researchers in combating misinformation. [Media Coverage: UNDP] → Feluda is being used as the back-end analysis engine on a national Deepfake detection WhatsApp helpline (Deep-fakes Analysis Unit) by the Misinformation Combat Alliance for 2024 Indian Lok Sabha elections . This helpline is funded by Meta. [Media Coverage: Nieman Lab The Hindu World Economic Forum Meta] → I build data pipelines to cluster large amount's of Audio and Video data into social media thematic labels like politics, humor, memes, devotional content etc. This work helps fact-checker's better understand, vizualize and analyze the content received on their helpline. → Tattle engaged with a MLCommons to develop an AI safety benchmark dataset for hate and sex related crimes. As a part of this project, I also conducted a survey on evaluating Indic LLM's for natural language tasks and online harms. [Dataset] [Report]	
May 2022	Ahmedabad University	Ahmedabad, India
May 2021	Undergraduate Research Fellow Advisors: Prof. Shilpa Pandit, Prof. Keyur Joshi Projects: Analysing people's psychological and physiological effects and experiences in the second wave of COVID-19, Perceivable Image Blur Quality Index	

Publications

S=In Submission, C=Conference, W=Workshop, P=Preprints, J=Journal

- [S.2] **Improving Content Moderation for Indian Languages using Related Tasks**
[Aatman Vaidya](#), Dipankar Srirag, Aditya Joshi
[In preparation]
- [S.1] **Strategies to Mitigate Spread of Toxicity on a Social Network**
[Aatman Vaidya](#), Harsh Bhagat, Seema Nagar, Amit Nanavati
[In preparation]
- [P.1] **Analysis of Indic Language Capabilities in LLMs**
[Aatman Vaidya](#), Tarunima Prabhakar, Denny George, Swair Shah
Report Submitted to **MLCommons**
- [W.1] **The Uli Dataset: An Exercise in Experience Led Annotation of oGBV**
Arnav Arora, Maha Jinadoss, Cheshta Arora, Denny George, Brindaalakshmi...[Aatman Vaidya](#), Tarunima Prabhakar
Workshop on Online Abuse and Harms at North American Chapter of the Association for Computational Linguistics
★ **Outstanding Paper Award** [NAACL'24]
- [C.3] **Analysing the Spread of Toxicity on Twitter**
[Aatman Vaidya](#), Seema Nagar, Amit Nanavati
ACM International Conference on Data Science and Management of Data [CODS-COMAD'24]
- [C.2] **Forecasting the Spread of Toxicity on Twitter**
[Aatman Vaidya](#), Seema Nagar, Amit Nanavati
IEEE International Conference on Cognitive Machine Intelligence [IEEE CogMI'23]
- [C.1] **Overview of the 2023 ICON Shared Task on Gendered Abuse Detection in Indic Languages**
[Aatman Vaidya](#), Arnav Arora, Aditya Joshi, Tarunima Prabhakar
International Conference on Natural Language Processing [ICON'23]

Talks

“Modelling Hate Speech on a Social Network”

› Social Network Analysis Class (CSE533) *Invited Speaker* [🔗]

Apr'24 (Ahmedabad University, India)

“Building NLP classifiers to detect Hate Speech”

› ACM Winter School on Network Science *Invited Speaker*

Dec'23 (Ahmedabad University, India)

“Tools to respond to Online Gender Based Violence”

› Digital Citizen Summit *Invited Speaker*

Nov'23 (Remote)

Achievements

Bosch Future Mobility Challenge | Semi-Finalist [🔗] Programmed and Engineered an **autonomous driving car** to navigate a miniature city. One of the 24 teams out of 118, and **only team** to represent **India** for the finals in Cluj, Romania. [📺] [📺]

Outstanding Paper Award Workshop on Online Abuse and Harms at NAACL'24

Ingenious Hackathon 3.0 | Winner Open Source Track

Academic Service

Shared Task Organiser ICON'23 (Gendered Abuse Detection in Indic Languages) [🔗]

Reviewer ACL Rolling Review'24

Teaching and Leadership Roles

Discrete Mathematics (MAT 101), Ahmedabad University *Teaching Assistant*

Nov'22 - Mar'23

› Responsibilities included evaluating assignments, and helping students with the coursework.

Center for Learning and Empowerment (NGO) *Volunteer Teacher* [🔗]

Jul'23 - Apr'23

› Taught 20+ secondary school kids mathematics for an entire academic year, at a tribal village in Jharkhand, India.

Reading Group, Ahmedabad University *Organiser* [🔗]

Dec'21 - May'22

› Organized a weekly Reading Group focused on reading recent and classical papers in Computer Science.

Programming Club, Ahmedabad University *Content Head and Event Organiser* [🔗]

Jul'20 - May'22

› Co-organized and curated events around Web Development, Machine Learning and Competitive Programming.

Google Android Study Jams Facilitator *Instructor* [📺] [🔗]

Dec'21 - Jan'22

› Conducted 3 sessions teaching Android Development in Kotlin to 40+ students.

Usable Pasts, Sustainable Futures *Student Volunteer* [🔗] [📺] [📺]

Jan'23

› Worked under Dr. Tejaswini Niranjana to understand how historically effective practices around Food, Clothing and Housing (*roti-kapda-makan*) can help mitigate climate change and public health issues.

Skills

Languages	Python, JavaScript, Elixir C/C++, Kotlin, GraphQL
Frameworks/ Libraries	PyTorch, Tensorflow, Nodejs, OpenCV, networkx, CameraX, Elasticsearch, Sequelize
Databases and Developer Tools	MySQL, PostgreSQL, Docker, AWS (S3, EKS, EC2), aws-cli, Kubernetes (kubectl), CI/CD, Android Studio, Firebase