Akshit Sinha

🔾 https://viciousaegis.github.io/ 🔘 akshit.sinha@students.iiit.ac.in 🐧 github.com/viciousaegis 🎓 Google Scholar

Education

Present | International Institute of Information Technology, Hyderabad | Hyderabad, India | July 2021 | B.Tech (Hons) in Computer Science and Engineering | CGPA: 8.55/10

Experience

Aug 2024 | Adobe Research
May 2024 | Research Intern
Worked on benchmarking large language models on a new iterative and contextual document updation task.

Aug 2024
Jan 2024
Jan 2024
Google DeepMind (formerly Google Research) | InfoNets
Student Research Collaborator
Introduced a new benchmark to evaluate controversy detection models mimicking the real-world data distribution.

Present | Precog Research Group [] Hyderabad, India May 2023 | Undergraduate Researcher | Advisor: Prof. Ponnurangam Kumaraguru | Working on ideas in explainability, robustness and trustworthiness of neural networks, specializing in graph representation learning.

| features from the Anki Desktop app to AnkiDroid.

Publications [* = Equal Contribution]

[2] Sanity Checks for Evaluating Graph Unlearning [PDF]

Varshita Kolipaka*, <u>Akshit Sinha*</u>, Debangan Mishra, Sumit Kumar, Arvindh Arun, Shashwat Goel and Ponnurangam Kumaraguru

3rd Conference on Lifelong Learning Agents Workshop Track (CoLLAS)

[CoLLAS-W '24]

[1] Higher Order Structures for Graph Explanations [PDF]

<u>Akshit Sinha*</u>, Sreeram Vennam*, Charu Sharma and Ponnurangam Kumaraguru *Arxiv Preprint*

[S.1] A shot of Cognac to forget bad memories: Corrective Unlearning in GNNs

Varshita Kolipaka*, <u>Akshit Sinha*</u>, Debangan Mishra, Sumit Kumar, Arvindh Arun, Shashwat Goel and Ponnurangam Kumaraguru
[In Submission]

Select Projects

Community Detection and Influencer Identification in Indian Social Networks

May'23 - Apr'24

Advisor: Prof. Ponnurangam Kumaraguru | In Collaboration with DRDO [❸]

- > Created an end to end system to identify online communities in social media, focusing on the Indian subcontinent.
- > The system included (i) collection of data from various social networks, followed by preprocessing and cleaning of data, (ii) applying state-of-the-art algorithms to perform various analyses based on location, political preferences, common interests, etc, and (iii) combining and packaging both steps into a deliverable sweb application with a unifying dash-board.

Movie Genre Prediction with Language Models

[CS7.403] Statistical Methods in AI | Source Code []

- > Used various classical ML models as well as language models to predict the genre of movies from their plots on the publicly available IMDB movies dataset.
- > We beat the scores reported in the original report for this task, and implemented complex architectures such as an LSTM, GRU and Transformers.

VASH Aug'22 - Dec'22

> The Vicious Aegis Shell is a shell coded in C emulating the BASH shell. Includes features like piping, redirection, background processes, and more.

Teaching and Leadership Roles

[CS2.201] Computer Systems Organisation Teaching Assistant

Jan'24-May'24

Aug'23 - Dec'23

- > Introductory course on low level computer architecture.
- > Responsibilities included curating assignments, conducting weekly tutorials, and grading quizzes and assignment submissions.

[CS4.301] Data and Applications Teaching Assistant

Aug'23-Dec'23

- > Introductory course on data modelling and data systems.
- > Responsibilities included curating assignments, conducting weekly tutorials, and grading quizzes and assignment submissions.

Open Source Developers' Group (OSDG), IIIT Hyderabad Club Coordinator

Mar'23 - Feb'24

- > Conducted an intra-college beginner hackathon with over 150 participants from year 1 and year 2.
- > Conducted various events related to open source software, Linux systems, Google Summer of Code, and a weekly event "Open Source Saturdays".

Honours and Awards

Dean's List Fall'22 Awarded to top academic performers in an academic year.

JEE Mains, 2021 Achieved All India Rank < 1000 with a percentile of 99.94.

Academic Service

Organising Volunteer ACM CompEd'23 []