

Education

- 2021 - **University of California, Los Angeles (UCLA)**
Present Master of Science in *Computer Science*.
- 2016–2020 **Indian Institute of Technology (IIT) Kharagpur** **GPA 9.04/10**
Bachelor of Technology (Hons.) in *Computer Science and Engineering*.

Work Experience and Internships

- Sep'21 - **University of California, Los Angeles**.
Present Teaching Assistant
 - Leading discussion sessions for 100 undergrad students for the course Chem 20A: Chemical Structure.
- Aug'20 - **Goldman Sachs, Bangalore**.
Sep'21 Analyst in Engineering Division
 - Integrated two internal bug and issue tracking software as a part of a full-stack development project.
 - Implemented UI features using Angular and Redux, made the codebase more robust by writing tests.
 - Coordinated with end-users for the entire SDLC cycle; deployed the project to production used by 8000 users.
- May'19 - **Accenture Technology Labs, Bangalore**.
Aug'19 Research Intern
 - Worked on stock price prediction using news articles and incorporated knowledge graph as domain knowledge
 - Used GCNs with events for real-world stock scenarios leading to performance improvement of 5% from baseline.

Publications

- May'20 **Analysing the Extent of Misinformation in Cancer Related Tweets** **[Link]**
 - Authored by **Rakesh Bal***, Sayan Sinha*, Swastika Dutta, Rishabh Joshi, Sayan Ghosh, Ritam Dutt
 - 14th International AAAI Conference on Web and Social Media (**ICWSM 2020**) - (Atlanta, USA)
- May'21 **Two-Sided Fairness in Non-Personalised Recommendations** **[Link]**
 - Authored by Aadi Swadipio Mondal*, **Rakesh Bal***, Sayan Sinha*, Gourab K. Patro
 - 35th AAAI Conference on AI (**AAAI 21**) Student Abstract and Poster Program * - equal contribution

Relevant Projects

- Adversarial Attacks
 - Worked on evading stateful defence through adversarial attacks like Fast Gradient Sign, Amortized Attacks
 - Implemented stateful defence, baseline and our proposed attacks on MNIST and EMBER datasets
- Text GCNs
 - Investigated TextGCN and reproduced the results of the model on 5 different text classification datasets.
 - Designed new graph construction algorithms to improve time cost of graph construction in TextGCN model

Skills

- Languages Python, C, C++, Java, JavaScript, TypeScript, Matlab, Lisp
- Libraries PyTorch, Keras, TensorFlow, Pandas, Angular, React, Node.js, Spring, MongoDB, OpenCV, ROS

Relevant Courses

- Computer Sc. Algorithms, Software Engineering, Switching Circuits & Logic Design, Computer Organisation & Architecture, Compilers, Operating Systems, Computer Networks, Theory of Computation
- Maths and AI Probability & Statistics, Linear Algebra, Machine Learning, Reinforcement Learning, Deep Learning, AI & Ethics, Natural Language Processing, ML Algorithms, Advanced Data Mining * - ongoing

Awards and Achievements

- Aug'18 Awarded B-Certificate in drill and weapon training in National Cadet Corps (NCC)
- Feb'16 Secured All India Rank 191 in KVPY SX Stream organised by IISc, Bangalore
- June'16 Secured All India Rank 265 (amongst 200,000 candidates) in IIT-JEE Advanced 2016
- May'15 Recipient of National Talent Search Examination (NTSE) Scholarship