Education

2021 - University of California, Los Angeles

Present Master of Science in *Computer Science*.

2016–2020 Indian Institute of Technology 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

o 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

- o Integrated two internal bug and issue tracking software as a part of a full-stack development project.
- o Implemented UI features using Angular and Redux, made the codebase more robust by writing tests.
- o 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
 - o 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].

- o Authored by Rakesh Bal*, Sayan Sinha*, Swastika Dutta, Rishabh Joshi, Sayan Ghosh, Ritam Dutt
- o 14th International AAAI Conference on Web and Social Media (ICWSM 2020) (Atlanta, USA)
- May'21 Two-Sided Fairness in Non-Personalised Recommendations

[Link].

- o Authored by Aadi Swadiptio Mondal*, Rakesh Bal*, Sayan Sinha*, Gourab K. Patro
- o 35th AAAI Conference on AI (AAAI 21) Student Abstract and Poster Program

* - equal contribution

Relevant Projects

- Adversarial O Worked on evading stateful defence through adversarial attacks like Fast Gradient Sign, Amortized Attacks
 - Attacks o Implemented stateful defence, attacks on MNIST and EMBER and submitted work to ICML for peer review.
- Fair GANs o Investigated on methods to overcome dataset bias towards gender by balancing the images of the 2 classes
 - o Used GANs (Cycle-GAN) for unsupervised domain translation in order to achieve dataset balancing

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 Al Probability & Statistics, Linear Algebra, Machine Learning, Image Processing, Reinforcement Learning, Deep Learning, Al & Ethics, Natural Language Processing, ML Algorithms* * - 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