

Education

- 2021 - **University of California, Los Angeles**
Ongoing Master of Science in *Computer Science*.
2016–2020 **Indian Institute of Technology Kharagpur**
BTech. (Hons.) in *Computer Science and Engineering*.

GPA 9.04/10

Work Experience and Internships

- Sep'21 - **University of California, Los Angeles**
Ongoing Teaching Assistant
◦ Working as a teaching assistant for the course Chem 20A: Chemical Structure in Fall 2021.
Aug'20 - **Goldman Sachs, Bangalore**
Sep'21 Analyst in Engineering Division
◦ Part of the global team responsible for developing the production runtime infrastructure of the company
◦ Integrated several internal bug and issue tracking softwares as a part of a full stack development project.
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 Graph Convolutional Networks along with events for better representation of the real-world stock scenario

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
◦ Accepted in *AAAI-21 Student Abstract and Poster Program* - (Vancouver, Canada) * - equal contribution

Relevant Projects

- NMT ◦ Analysed performance of various attention based NMT models such as Bahdanau and Transformer
◦ The translation results were fed into a search engine and top results were analysed with the original queries
Fair GANs ◦ Investigated on methods to overcome dataset bias towards gender by balancing the images of the 2 classes
◦ Used GANs (Cycle-GAN) for unsupervised domain translation in order to achieve dataset balancing

Skills

- Languages Python, C, C++, Java, TypeScript, Lisp, Matlab, Verilog
Libraries PyTorch, Keras, TensorFlow, Pandas, Angular, 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, Image Processing, Reinforcement Learning, Deep Learning, AI & 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