

Applications for PhD/MSR/RA/Postdoc Positions

We are expanding LCS2 at IIT Delhi. Several PhD/Postdoc/MSR (MS by research)/RA (full-time) positions are available in the LCS2 lab at IIT Delhi (Dept of Electrical Engg.). Interested candidates are requested to apply to the regular MS/PhD round, details of which are available at <https://home.iitd.ac.in/pg-admissions.php> (last date: Oct 31, 2022). Candidates working in industries may apply for the part-time/sponsored PhD position. All interested candidates are also requested to send an email to tanchak@iitd.ac.in after submitting the application, with the CV and other relevant information.

For the RA/Postdoc positions, candidates can reach out to tanchak@iitd.ac.in with their updated CV (mentioning their educational qualifications with GPA, and research experiences, etc.) and the areas they are interested in (any relevant prior work justifying their interests). Please check out our research at <https://www.lcs2.in/> and <https://tanmoychak.com/>.

Eligibility criteria

- For PhD: <https://drive.google.com/file/d/1uvSF9yIaqOO8DXOLt4cfvQGcqsuvyQX3/view>
- For MSR: https://drive.google.com/file/d/1TgK_-ONKD7NubKDsgLVuIOyqCkVetEWa/view
- For RA: BTech/ BE/ MTech/ MS/ ME in CSE/ IT/ ECE/ EE and allied areas (degree completion certificate is required. Students with ongoing degree are not eligible)
- For Postdoc: PhD in NLP/Social Computing/Graphs/ML or allied areas (students who submitted the theses are also eligible provided an NOC from the advisors should be provided). Candidates can also apply to the institute postdoc positions through <https://home.iitd.ac.in/jobs-iitd/index.php>

Benefits

- Higher salary (higher than the usual stipend in India). It will be decided based on the CV and the project you will be assigned to.
- Regular interactions with the industry collaborators
- Opportunities for internship and short-term visits to industry.
- Work with industry-relevant problems with deployable solutions (on real-world data, if available).

Selective problem statements

- Exploring the roles of network topology, temporal online interactions, and downstream tasks in graph representation learning (Funded by Facebook)
- Efficient Design of large language models (Physics/brain-inspired models, prompt based learning) (Funded by DRDO)
- Combating online hate speech via counterspeech generation (Funded by Logically.ai)
- Argumentation mining and text summarization of scientific data (Funded by Crimson Interactive)
- Dialog understanding and generation for mental health (Funded by iHub Anubhuti)
- Computational neurolinguistics
- Geometric deep learning
- Taxonomy based multimodal retrieval

Required skill sets

- Strong Python programming skill (NLTK, GenSim, Stanford Core NLP library, SpaCy, /Tensorflow/PyTorch)

- Knowledge in Machine Learning, Deep learning, NLP, Graph mining (network science/deep learning for graphs)
- Paper writing skill (optional)

Contact: For any queries, candidates can reach out to Tanmoy Chakraborty (chak.tanmoy.iit@gmail.com, tanchak@iitd.ac.in)