

Kishalay Das

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Research Interest

I am a Prime Minister Research Fellow at Indian Institute of Technology, Kharagpur and working as a part of CNeRG Group. I am broadly interested in Graph Representation Learning and Machine Learning. My current research is focused on representation learning over molecular and crystal graphs using Graph Neural Network (GNN).

Education

- 2022 - **Ph.D. in Computer Science**, *Indian Institute of Technology(IIT), Kharagpur, India*, GPA: 9.33/10.
- 2018 - 2020 **M.Tech. in Computer Science**, *Indian Institute of Science(IISc), Bangalore, India*, GPA: 8.8/10.
- **Thesis:** *Graph Neural Network on Hypergraphs by Learning Line Graph Expansion* under supervision of **Prof. M. Narasimha Murty**
- 2008 - 2012 **B.Tech. in Computer Science**, *West Bengal University of Technology, Kolkata, India*, GPA: 8.37/10.

Research Experiences

- Jul,2020 - Dec, 2021 **Research Assistant**, IIT Kharagpur, CNeRG Group, under supervision of **Prof. Niloy Ganguly** and **Prof. Pawan Goyal**.
- **Developing explainable property predictor for crystalline material using limited training data**

Work Experience

- May,2017 - Jul,2018 **Scientist/Engineer-SC**, *ISRO Telemetry Tracking and Command Network*, Indian Space Research Organisation (ISRO),Bangalore.
- Mar,2013 - Apr,2015 **System Engineer**, *Tata Consultancy Services (TCS)*, Kolkata.
- Jul,2012 - Feb,2013 **Associate Software Developer**, *Accenture Pvt. Ltd.*, Hyderabad.

Teaching Experiences

- Jan - May,2020 **Teaching Assistant**, Topic in Pattern Recognition, IISc, Bangalore.
- Aug - Dec,2019 **Teaching Assistant**, Linear Algebra, IISc, Bangalore.

Publications

- Kishalay Das, Bidisha Samanta, Pawan Goyal, Seung-Cheol Lee, Satadeep Bhattacharjee, Niloy Ganguly, "**CrysXPP: An Explainable Property Predictor for Crystalline Material**" accept in principle at *npj Computational Materials*, 2022 [[Paper](#)]
- Sambaran Bandyopadhyay, Kishalay Das, M Narasimha Murty, "**Hypergraph Attention Isomorphism Network by Learning Line Graph Expansion**" *2020 IEEE-Big Data* [[Paper](#)] [[Code](#)]

Relevant Courses

- Topics in Pattern Recognition, Machine Learning, Deep Learning, Natural Language Processing, AI and Ethics, Linear Algebra and Probability, Computational Method of Optimization, Data Analytic,

Accomplishments

- Rewarded prestigious Prime Minister's Research Fellowship (PMRF) December cycle 2021
- Rewarded Best Grade (A+) on M.Tech Thesis in IISc, 2020.
- Rewarded Outstanding Grade on annual performance evaluation in ISRO, 2018.
- Secured **All India Rank 37** among 96878 candidates in GATE-2017 in Computer Science.
- Secured **All India Rank 38** among around 35000 candidates in ISRO Entrance Exam,2017.