

Kishalay Das

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Research Interest

I am broadly interested in Graph Representation Learning and Machine Learning. My recent research has been aligned to representation learning over molecular and crystal graphs using Graph Neural Network (GNN).

Education

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 - Present **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**" accepted at *NPJ Computational Material* [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, Linear Algebra and Probability, Computational Method of Optimization, Data Analytic, Design and Analysis of Algorithm, Computer Architecture

Skillset

- **Programming Languages** : Python, Java, C,C++, C#, SQL, HTML, JavaScript, CSS
- **Frameworks** : Pytorch, Tensorflow, Keras
- **Tools and Technologies** : Pycharm, Visual Studio, Android Studio, SQL Server Management Studio, Latex

Accomplishments

- 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.