Ayan Chatterjee

Contact Information

177 Huntington Ave. Boston, MA 02115
E-mail: chatterjee.ay@northeastern.edu
Mobile: (617)-840-8467
Personal Website: chatterjeeayan.github.io

Education

Northeastern University (2019 - Present)
Ph.D. Student, Network Science Institute
Advisor: Professor Tina Eliassi-Rad
Focus areas: Graph Machine Learning, Link Prediction, Interpretability, XAI, and Network Science.

Indian Institute of Science (2017)
M.Tech in Electronic systems Engineering *summa cum laude*
Undergraduate Advisor: Dr. Chandramani Signh and Dr. T. V. Prabhakar

Jadavpur University (2015)
B.E in Electronincs & Telecommunication Engineering *summa cum laude*
Undergraduate Advisor: Professor M. K. Naskar

Recent Publications

Ayan Chatterjee, Robin Walters, Zohair Shafi, Omair Shafi Ahmed, Michael Sebek, Deisy Gysi, Rose Yu, Tina Eliassi-Rad, Albert-László Barabási, Giulia Menichetti. 2021. AI-Bind: Improving Binding Predictions for Novel Protein Targets and Ligands. Accepted at Nature Communications. Pre-print: [pdf]

Ayan Chatterjee, Robin Walters, Giulia Menichetti, Tina Eliassi-Rad. 2023. Disentangling Node Attributes from Graph Topology for Improved Generalizability in Link Prediction. Submitted to KDD 2023.

Zohair Shafi, **Ayan Chatterjee**, Tina Eliassi-Rad. 2023. Explaining Node Embeddings. Submitted to KDD 2023.

Ayan Chatterjee, Qingtao Cao, Amirhossein Sajadi, Babak Ravandi. 2022. From NetLogo Modeling of Deterministic Random Walk to the Identification of Asymmetric Saturation Time in Random Graphs. Under review at Applied Network Science. Pre-print: [pdf]

Google Scholar: Here

Industry Experience

NVIDIA - *Computer Architect*   Aug 2017 - Aug 2019
Designing GPU architecture for AI acceleration and ray tracing.

Invited Talks

2022	Channing Methods Meeting on identifying interactions between novel protein targets and ligands: AI-Bind and AI-assisted molecular docking . Harvard T.H. Chan School of Public Health, Harvard University, Boston.