My Webpage

PRATIK DUTTA

Curriculum Vitae

Department of CSE
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Education

2016–present **PhD, Computer Science & Engineering**, *Indian Institute of Technology*, Patna
Protein-protein interactions, Protein structure, Genomic sequence, Multi-objective Optimization, Clustering, Machine Learning and Deep Learning

2013–2015 : **Master of Engineering, Information Technology**, *Indian Institute of Engineering Science & Technology*, Shibpur(*Formerly* Bengal Engineering and Science University, Shibpur)

2009–2013 : **Bachelor of Engineering, Computer Science & Technology**, *Indian Institute of Engineering Science & Technology*, Shibpur(*Formerly* Bengal Engineering and Science University, Shibpur)

Publications

Journal Articles

Communicated Journal Article

2020 **Pratik Dutta, Aditya Prakash Patra, and Sriparna Saha**, DeePROG: An Attention based Deep Multi-modal Architecture for Disease Gene Prognosis, In *IEEE Transactions on Biomedical Engineering*

In Conference Proceedings

Research Experience

Indian Institute of Technology, ABC

June,2019 – present **Identifying Protein-protein Interaction from Biomedical text**
Developing a deep multi-modal architecture for accurately predicting protein interaction information from biomedical text.

Advisor : **Dr. abc xyz**, *Associate Professor, Department of Computer Science & Engineering*, IIT abc (*Personal Web-page*)

July,2018 – present **Developing Deep Multi-modal Architecture for Biomedical Problems**
Analyzing different modalities of genes like gene expression profiles, protein 3D structure, underlying amino acid sequence using popular deep learning models to obtain deeper insight into the underlying biological system.

Advisor : **Dr. abc xyz**, *Associate Professor, Department of Computer Science & Engineering*, IIT abc (*Personal Web-page*)

Indian Institute of Technology, XYZ

January,2015 – Dec,2015 **Design and Synthesis of Reversible Multi-dimentional Nearest-Neighbour(NN) Quantum Circuit**
Proposed an approach for designing and physically implementing of the multi-dimensional quantum circuits maintaining nearest-neighbor complacency that use minimal number of SWAP gates.

Advisor : **Dr. abc xyz**, *Associate Professor, Department of Computer Science & Engineering*, IIT abc (*Personal Web-page*)

2012 – 2013 **Text Document Clustering with Semantic Similarity through Wordnet**
Improvement of the text document clustering task over conventional methods by introducing WORDNET and some better clustering algorithms.

Advisor : **Dr. abc xyz**, *Associate Professor, Department of Computer Science & Engineering*, IIT abc (*Personal Web-page*)

Fellowships & Awards

2018 Invited to conduct lab sessions in **"Training Program on Machine Learning For Ocean Acoustics and Climate Data Analysis"**, during 22-36 October 2018 at **Defence R&D Organization- Naval Physical & Oceanographic Laboratory (DRDO-NPOL), Kochi, Kerala**.

Computer skills

Programming Languages	Python, PyTorch, keras, R, C, C++, Advanced JAVA
Web Technologies	HTML 5, PHP, JSP, Javascript
Database	SQL, MySQL, Apache, Neo4j

Position of Responsibility

2016-2020	**Executive member of IEEE Student Branch**, IIT ABC
April 1-5, 2019	**Organizer, GIAN Workshop on subjects**, IIT ABC

Teaching Assistantship

Fall, 2019 :	**CS564: Foundations of Machine Learning**, IIT ABC
Spring, 2019 :	**CS342: Operating System Lab**, IIT ABC
Fall, 2018 :	**CS564: Foundations of Machine Learning**, IIT ABC

Referees

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