Kishan KC

Ph.D. Student, Rochester Institute of Technology

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Research Interests

Graph Representation Learning, Graph Neural Networks, Heterogeneous Data Integration, Computational Biology

Education

August 2016 — **Doctor of Philosophy, Computing and Information Sciences**
Golisano College of Computing and Information Sciences
Rochester Institute of Technology
Advisors: Professor Anne Haake and Professor Rui Li

January 2011 – October 2014 — **Bachelor of Engineering, Computer Engineering**
Institute of Engineering, Tribhuwan University, Lalitpur, Nepal
Thesis: Agricultural Data Integration and Analysis

Experience

August 2016 – Present — **Research Assistant**, Human-Centric Multi-Modal Modelling Lab, Rochester Institute of Technology
Project: ABI Innovation - Novel Methodology for Leveraging Metabolic Simulation to Improve Regulatory Reconstruction
Advisors: Professor Anne Haake and Professor Rui Li

May 2015 – June 2016 — **Data Engineer**, Research & Development, Verisk Information Technologies
Project: Medical Intelligence

October 2014 – April 2015 — **Software Trainee**, Data Warehousing ETL Team, Yomari Inc. Pvt. Ltd.
Project: Express EDW

May 2013 – December 2013 — **Research Intern**, Software Development, E & T Nepal Pvt. Ltd.
Project: 3D CAD Viewer with HTML5 over SSL

Honors and Certifications

2018 **PyTorch Scholarship Challenge from Facebook**, Udacity
2018 **RIT Ph.D. Merit Scholarship**, Rochester Institute of Technology
2016 **Data Science Certification**, Coursera
2016 **The Verisk Way to Go Award**, Verisk Information Technologies
2016 **Team of the Quarter**, Verisk Information Technologies
2015 **Rookie of the Year**, Verisk Information Technologies
2015 **The College Fellowship Scholarship**, Institute of Engineering, Tribhuwan University
2015 **Full Fee Programme Wise Semester Topper Scholarship**, Institute of Engineering, Tribhuwan University
2015 **Full Fee Programme Wise Batch Topper Scholarship**,Institute of Engineering, Tribhuwan University

Publications

APBC — **KC, K.**, Li R., Cui F., Yu Q., and Haake A. R. (2019). GNE: A deep learning framework for gene network inference by aggregating biological information. The Asia Pacific Bioinformatics Conference (APBC 2019).

ECCB — **KC, K.**, Li R., Cui F., and Haake A. R. (2018). Learning topology-preserving embedding for gene interaction networks. The European Conference on Computational Biology (ECCB 2018 Poster Track).

Posters

2018 | **GNE: A deep learning framework for gene network inference by aggregating biological information**
AI@GCCIS: Golisano College Research & Innovation Showcase, Rochester Institute of Technology
Biological Data Science, Cold Spring Harbor Laboratory

2018 | **Learning topology-preserving embedding for gene interaction networks**
17th European Conference on Computational Biology (ECCB), Athens, Greece

2018 | **Gene Network Embedding**
New Deep Learning Techniques, IPAM, UCLA

2017 | **Reconstruction of Gene Regulatory Networks with Ensemble SVM**
AI@GCCIS: Golisano College Research & Innovation Showcase, Rochester Institute of Technology

Talks

2018 | **Introduction to Neural Networks**
Teaching Apprenticeship, Statistical Machine Learning, Rochester Institute of Technology

2018 | **Deep Learning on Graphs**
Guest talk, Deep Learning Seminar, Rochester Institute of Technology

Technical Skills

Deep Learning Libraries	TensorFlow , Keras, PyTorch
Programming Languages	Python, R, Java, C, C++, MATLAB
Databases & Query Languages	Oracle Database, MySQL, SQL, Pl/SQL
Web Development	HTML/5, CSS, JavaScript, PHP, Shiny, Java Spark framework
Systems	Amazon AWS EC2

Open Source Projects

Gene Network Embedding github.com/kckishan/GNE
TensorFlow package for representation learning on gene interaction networks