Kishan KC

Ph.D. Candidate, 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 | **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 2015 – Jun 2016 | **Research Intern**, Software Development, E & T Nepal Pvt. Ltd.
Project: 3D CAD Viewer with HTML5 over SSL

Honors and Certifications

2016 **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 Technology
2015 **Full Fee Programme Wise Semester Topper Scholarship**, Institute of Technology
2015 **Full Fee Programme Wise Batch Topper Scholarship**, Institute of Technology

Publications

[1] **Kishan KC**, Rui Li, Feng Cui, Qi Yu, Anne Haake. GNE: A deep learning framework for gene network inference by aggregating biological information. *The Asia Pacific Bioinformatics Conference (APBC)*. 2019 (to appear).

[2] Rui Li, **Kishan KC**, Feng Cui, Justin Domke, Anne Haake. Sparse Covariance Modeling in High Dimensions with Gaussian Processes. *Neural Information Processing Systems (NIPS)*. 2018.

[3] **Kishan KC**, Rui Li, Feng Cui, Anne Haake. Learning topology-preserving embedding for gene interaction networks. *The European Conference on Computational Biology (ECCB) (Poster Track)*. 2018.

Posters

GNE: A deep learning framework for gene network inference by aggregating biological information 2018
AI@GCCIS: Golisano College Research & Innovation Showcase, Rochester Institute of Technology

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

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

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

Technical Skills

Deep Learning Libraries	TensorFlow , Keras
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