Kishan K C

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SUMMARY

- Extensive theoretical and practical background in machine learning and deep Learning.
- Experienced with designing, implementing, and training deep learning models, usually in PyTorch.
- Excellent teamwork, communication, and writing skills developed through previous industry experience, research publications, presentations, and talks.

EDUCATION

Rochester Institute of Technology, Rochester, New York Aug 2016 - Present
PhD in Computing and Information Sciences. GPA 4/4
Relevant coursework: Statistical Machine Learning; Deep Learning; Big data; Statistical Analysis

Institute of Engineering, Tribhuvan University, Kathmandu, Nepal Jan 2010 – Oct 2014
B.E. in Computer Engineering. Passed with Distinction
Relevant Courses: Artificial Intelligence; Data Mining; Big Data Technologies; Data Structures and Algorithms; Probability and Statistics

RESEARCH EXPERIENCE

Graduate Research Assistant, Lab of Use-Inspired Computational Intelligence
Rochester Institute of Technology, Rochester, NY Aug 2016 – Present

- Developed probabilistic model selection to infer most plausible neural network depth warranted by data
- Developed higher-order graph convolutional networks (github.com/kckishan/HOGCN-LP) on PyTorch to aggregate information from multi-hop neighborhood to recommend novel/missing links
- Developed interpretable and sparse gated sequence encoder (github.com/kckishan/InterpretablePIP) on PyTorch to embed protein sequences for scalable link prediction
- Designed representation learning framework (github.com/kckishan/GNE) on TensorFlow to integrate biological networks with additional node information for link prediction

Applied Scientist Intern, Alexa AI
Amazon, Sunnyvale, CA Jun 2021 – Sep 2021

- Designed and implemented embedding adaptation via transformer-based architecture in open-set few-shot learning

SELECTED PUBLICATIONS

- **K C, K**, Gilany M., Li R. Joint Inference for Neural Network Depth and Dropout Regularization. *Proceedings of Neural Information Processing Systems (NeurIPS).* 2021 (*To appear*).
- **K C K.**, Li R., Cui F., Haake A. Predicting biomedical interactions with higher-order graph convolutional networks. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*. 2021.
- **K C K.**, Cui F., Haake A., Li R. Interpretable Structured Learning with Sparse Gated Sequence Encoder for Protein-Protein Interaction Prediction, *25th International Conference on Pattern Recognition*. 2021.
- **K C K.**, Li R., Cui F., Yu Q., Haake A. GNE: A deep learning framework for gene network inference by aggregating biological information. *The Asia Pacific Bioinformatics Conference*. 2019.

HONORS, AND AWARDS

RIT PhD Merit Scholarship	2016-Present
RIT Graduate Showcase Oral Presentation Award	2019
Team of the Quarter	2017
Data Science Certification Grant	2016
The employee of the Year	2016
Rookie of the Year	2015

SKILLS

Data Science Tools	NumPy, Pandas, SciPy, Matplotlib, NetworkX, Jupyter
Deep Learning Frameworks	PyTorch, TensorFlow
Programming Languages	Python, R, Java
Machine Learning Libraries	Scikit-learn (python), Caret (R)
Databases	SQL