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Engineering & Scientific Consulting

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Professional Profile

Dr. Harris has extensive experience pertaining to time-series analysis, data mining, natural language generation, deep learning, and mobile application development. He utilizes this knowledge to assist clients on a wide range of scenarios, such as risk management, failure analysis, and technical litigation support. He completed his Ph.D. in Computer Science at Rensselaer Polytechnic Institute. His doctoral research primarily focused on employing advanced time-series data mining methods to surface personalized behavioral insights from an individual's health data. These insights were presented as natural language summaries, designed to aid users in better comprehending their behavior, as well as their progress towards their health goals. Later, he trained convolution- and Transformer-based deep learning models to automate this work.

Academic Credentials & Professional Honors

Ph.D., Computer Science, Rensselaer Polytechnic Institute, 2022

B.S., Computer Science and Mathematics, Rensselaer Polytechnic Institute, 2018

Prior Experience

Research Assistant, Rensselaer Polytechnic Institute (RPI), May 2017 – December 2022

Ph.D. Research Intern, Center for Computational Health (IBM), May 2021 – August 2021

Ph.D. Research Intern, Center for Computational Health (IBM), June 2020 – September 2020

Software Developer Intern, CopyCat, June 2015 – October 2015

Publications

Harris J., Munasinghe T., Tubbs H., and Anyamba A. Predicting crimean-congo hemorrhagic fever outbreaks via multivariate time-series classification of climate data. Proceedings of the 6th International Conference on Medical and Health Informatics. Association for Computing Machinery, New York, NY, USA, 215–218.

Harris J., C.-H. Chen, and M. J. Zaki. A framework for generating summaries from temporal personal health data. Association for Computing Machinery Transactions on Computing for Healthcare, vol. 2, no. 3, pp. 1–43, July 2021.

Presentations

Harris J., Munasinghe T., Tubbs H., and Anyamba A. Predicting crimean-congo hemorrhagic fever

outbreaks via multivariate time-series classification of climate data. Virtual presentation, 6th International Conference on Medical and Health Informatics, Kyoto, Japan, 2022.

Peer Reviews

Journal of Web Semantics