TRYAMBAK KAUSHIK, PhD

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SOFTWARE & SKILLS

Python: Machine Learning (sci-kit learn), Deep learning (Pytorch), visualization (Plotly), knowledge graphs, topic modeling
R: Machine learning, statistics, visualization (ggplot)
Cloud Services: AWS Sagemaker, AZURE, GCP, etc
Miscellaneous: C, C++, Julia, SQL, NoSQL, Project Management, Product management, etc.

DATA SCIENCE PORTFOLIO

Semi-supervised learning with GANs
(https://www.kdnuggets.com/2020/01/semi-supervised-learning-generative-adversarial-networks.html)

- Implemented SGANs in Pytorch
- Achieved a prediction accuracy of 98% for a 50% poorly labelled or unlabeled dataset

Predicting Stock market trading
(https://aisc.ai.science/super-blog/rl-2019)

- Implemented reinforcement learning actor-critic policy in Pytorch
- Compared performance of deep learning models such as RNN, attention and transformer models

Recommender System using transformers
(https://docs.google.com/document/d/15Y05HjXij8swYfayRBQeK9EL4BkUN5Jp_9IXkkaQ97E/edit#)

- Critical review paper on BERT4Recsys recommendation system
- Strength and weakness of implementing transformer architecture for recommendation systems

PROFESSIONAL EXPERIENCE

Engineer	*March 2018 – contd.*
Arcadis Canada Inc., Richmond Hill, ON, Canada	
Senior Design Engineer	*Aug. 2016 – March 2018*
Infrastructure Technologies, NOIDA, India	
Technical Professional	*Feb. 2015 – June 2016*
Wood plc, Charlotte, NC, USA	
Research Assistant	*Jan. 2014 – Jan. 2015*
The University of North Carolina, Charlotte, NC, USA	
Research Assistant	*Aug. 2009 – Dec. 2013*
Michigan State University, East Lansing, MI, USA	
Assistant Manager	*July 2007 – Aug. 2009*
Ircon International Ltd., Kuala Lumpur, Malaysia	

EDUCATION

Ph.D., Civil Engineering, Michigan State University, East Lansing, Michigan, USA (August 2014)
M.S., Civil Engineering, Michigan State University, East Lansing, Michigan, USA (May 2013)
M.Tech., Civil Engineering, Indian Institute of Technology, New Delhi, India (May 2007)
B.Tech., Civil Engineering, National Institute of Technology, West Bengal, India (May 2005)