TRYAMBAK KAUSHIK, PhD

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SOFTWARE & SKILLS

Python: Machine Learning (sci-kit learn), Deep learning (Pytorch), visualization (Plotly), knowledge graphs, NLP-topic modeling

R: Machine learning, statistics, visualization (ggplot)

Cloud Services: AWS, 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

NLP-Topic Modeling of Twitter Data
(https://github.com/tryambak2019/NLP-Topic-Modeling)
- Scrape internet for twitter data
- LDA modeling to evaluate tweet topics

Toronto House Price Prediction
(https://github.com/tryambak2019/AirBnB-Housing-Prediction)
- Use of AirBnB Data to evaluate Toronto Housing Market
- Comparison of linear regression, light gradient boosting method, and deep learning with Pytorch for predicting housing market

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)