Shekoofeh Mokhtari

📞 786-451-1831 • ✉ smokh004@fiu.edu • in shekoofeh • ⌂ smokh004

Interest

Natural Language Processing with Deep Neural Networks
Recommendation System
Machine Learning

Education

2014 → (Exp) May 2019 **Ph.D. in Computer Science**, *Florida International University*.
Advisors: Prof. Ning Xie, Prof. Tao Li (RIP)
Desertion: Deep Learning for Learning Representation in Natural Language Processing

2013 → 2014 **M.Sc. in Computer Science**, *Florida International University*.

2005 → 2009 **B.Sc. in Computer Engineering**, *University of Isfahan*.

Skill

DeepLearning — TensorFlow, PyTorch, Keras, CNTK

NLP — Stanford CoreNLP, NLTK, Gensim, Scikit learn, spaCy

Data — Spark/Hadoop, Numpy/Scipy/Pandas, SQL/noSQL

Language — Python, SQL, Java, C/C++, C#, Scala

Experience

May 2018 → Aug 2018 **Microsoft**, Applied Data Scientist Intern.
- Design and develop deep neural network model for sequential document recommendation system of Microsoft office.
- Model the sequential access pattern of documents and achieve high NDCG for highly active users.

May 2017 → Aug 2017 **Microsoft AI & R**, Software Eng. Intern.
- Design and develop deep neural network model for tagging address queries. Significant improvement in the accuracy and precision.
- Study the impact of various neural network architecture on the performance of tagging address queries in map search.

May 2016 → Aug 2016 **IPSoft**, Software Eng. Intern.
- Study paraphrase Identification of short text data and deep ranking model to rank base on similarity score.
- Design model based on convolutional neural network to rank questions in large QA dataset.
- Develop the model in TensorFlow framework using hinge loss to improve the ranking model.

Aug 2014 → PRESENT **Florida International University**, Research Assistant.
- Leverage deep learning models for understanding unstructured short text data such as online user reviews, questions, and news such as sentiment analysis, document classification.
- Design and develop an end-to-end convolutional neural network based model to explore the effectiveness of user information for review rating prediction, achieving competitive performance on Amazon and Yelp sentiment classification task
- Design and develop contextual multi-armed for recommendation systems where the reward mapping function change over time
- Design and develop, RevMap, unified framework for generating visual structured summaries of online user reviews

May 2011 → Aug 2013 **Isfahan University of Tech**, Software Engineer.
- Patch repository: Enterprise patch repository over multiple operating systems
- Secure Rule Engine: Secured rule engine for online Computer security competition
- Analysis of network vulnerabilities and management of security incident

Selected Publication

NLP with Deep Learning

DL04 Tagging Address Queries in Map Search
S. Mokhtari, Dragomir Yankov, Ahmad Mahmoudy, N. Xie, 33th Innovative Applications of Artificial Intelligence (IAAI'19), Honolulu, Hawaii

DL03 Context-Sensitive Neural Sentiment Classification
S. Mokhtari, T.Li, N. Xie, IEEE 19th International Conference on Information Reuse and Integration for data science (IRI'18)

DL02 RevMap: A Visualized Framework for Holistic View of Reviews
S. Mokhtari, T.Li, N. Xie, IEEE 19th International Conference on Information Reuse and Integration for data science (IRI'18)

DL01 Hierarchical Neural Model for Tagging address queries in map search
S. Mokhtari, N. Xie, 2nd Workshop on Widening NLP (WiNLP 2018) co-located with NAACL, New Orleans, LA

DL00 Hierarchical Neural Address Parser
S. Mokhtari, T. Li, 12th Women in Machine Learning Workshop (WiML 2017) co-located with NIPS, Long Beach, CA

Data Mining

DM02 Online Context-Aware Recommendation with Time Varying Multi-Arm Bandit
C. Zeng, Q. Wang, **S. Mokhtari,** *T. Li,* ACM KDD'16

DM01 Optimal Two-Tier Forecasting Power Generation Model in Smart Grid
K.G. Boroojeni, **S. Mokhtari,** *M. H. Amini, S. S. Iyengar,* IJIP'15

DM00 A Hybrid Model for Forecasting Power Demand and Generation in Smart Grids
K.G. Boroojeni, **S. Mokhtari,** *S. S. Iyengar,* ICCN'14

Honor and Awards

2018 **Microsoft AI-School Technical Award.**

2018 **FIU Dissertation Year Fellowship.**

2017 **Microsoft Diversity Scholarship.**

2016-18 **Student Travel Grant for SIGKDD'16, WiML'17, WiNLP'18, TAPIA '18.**

2016, 2017 **FIU Grace Hopper Travel Grant.**

2014, 2015 **SRI Summer School Grant.**

2015 **Grad Cohort Workshop –CRA Women Scholarship.**

2014 **Best Paper Award at ICCN.**

Teaching Experience

2017 ➙ 2018 **Java Programming**, *FIU*, Teaching Assistant.

2016 ➙ 2017 **Business Analyst**, *FIU*, Teaching Assistant.

2015 ➙ 2016 **Algorithm Techniques**, *FIU*, Teaching Assistant.

2014 ➙ 2015 **Computer Data Analysis**, *FIU*, Teaching Assistant.