Mohamad Hoseini

Curriculum Vitae

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BIO

I am currently pursuing a Ph.D. at the Max-Planck Institute for Informatics. I specialize in machine learning and data analysis, extracting insights from large datasets sourced from diverse social media platforms.

Work Experience

2018–2024 **Research Scientist**, *Max Planck Institute for Informatics*, Germany.

Tasks:

- Utilized **Machine Learning** methods to uncover hidden structures and trends in online misinformation dissemination.
- Implemented **Big Data** cleaning and processing pipelines, **ETL** and data analysis, utilizing **Python** (Pandas, TensorFlow, PyTorch, Numpy).
- Utilized a range of Natural Language Processing (**NLP**) techniques including topic modeling (BERT and LDA) and sentiment, toxicity, and similarity analysis to derive insights from textual data.

2012–2016 **Lecturer**, *Department of IT Engineering*, Kermanshah University of Technology, Iran.

Tasks:

- Instructed a variety of courses in Computer Science and E-Commerce and mentored and guided several undergraduate thesis projects, with a focus on IT, particularly in Data Mining.

2016–2018 **Software Engineer**, Ista Moj Afaq Ltd, Iran.

Tasks:

- Contributed to end-to-end **Machine Learning** projects on **AWS**, from data preparation and model training to deployment and monitoring, ensuring alignment with organizational goals and objectives.

Education

2018–2024 **PhD in Computer Science - Universität des Saarlandes**, *Germany*.

Thesis Title: Analyzing the spread of misinformation in online messaging platforms
Status: In the writing phase

2009–2012 **M.Sc. in E-Commerce, Iran University of Science and Technology**, *Iran*.

Thesis Title: Investigating and Evaluating the Impact of Online Social Networks on Customers' Buying Behavior

2004–2009 **B.Sc. IT Engineering, Shiraz University of Technology** , *Iran*.

Graduation project: Sales Prediction Using Neural Networks Methods

Technical Skills

Programming Languages: Python, C++
Machine Learning Frameworks: TensorFlow, PyTorch, scikit-learn, MLflow
Cloud Computing: AWS
NLP: BERT, LDA, Word Embeddings, Doc2vec
Data Analysis: SQL, Pandas, Numpy, Spark
Data Visualization: Matplotlib, Gephi

Publications

- **M. Hoseini**, P. Melo, F. Benevenuto, A. Feldmann, and S. Zannettou (2024). Characterizing Information Propagation in Fringe Communities on Telegram. International AAAI Conference on Web and Social Media (ICWSM 2024).
- P. Melo, **M. Hoseini**, F. Benevenuto, A. Feldmann, and S. Zannettou (2024). Don't Break the Chain: Measuring Message Forwarding on WhatsApp. International AAAI Conference on Web and Social Media (ICWSM 2024).
- **M. Hoseini**, P. Melo, F. Benevenuto, A. Feldmann, and S. Zannettou (2023). On the globalization of the QAnon conspiracy theory through Telegram. In Proceedings of the 15th ACM Web Science Conference 2023 (pp. 75-85).
- **M. Hoseini**, P. Melo, F. Benevenuto, B. Chandrasekaran, A. Feldmann, and S. Zannettou (2020). Demystifying the Messaging Platforms' Ecosystem Through the Lens of Twitter. In Proceedings of the ACM internet measurement conference (pp. 345-359).
- **M. Hoseini**, F. Saghafi, and E. Aghayi (2019). A multidimensional model of knowledge sharing behavior in mobile social networks. Kybernetes, 48(5), 906-929.
- M. Fathian and **M. Hoseini** (2014). Investigating the Impact of Virtual Communities on Furtherance of Customers' Buying Behavior. Journal of information technology management, 6(3), 435-454.

Residency Status

Permanent Resident (Legally allowed to work in Germany without restrictions)