Preni Golazizian

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Education

Sharif University of Technology | Tehran-Iran

Bachelor of Science in Computer Engineering

Degree anticipated March 2021

Research Interests

Applications of Natural Language Processing in Social Networks Analysis

Prediction of Human Behavior using Online Information

Information Retrieval

Opinion Mining on Social Media

Machine Learning

Publications

Irony Detection in Persian Language: A Transfer Learning Approach Using Emoji Prediction
Preni Golazizian, Behnam Sabeti, Seyed Arad Ashrafi Asli, Zahra Majdabadi, Omid Momenzadeh and Reza Fahmi , *International Conference on Language Resources and Evaluation (LREC)*, 2020, Marseille, France, pages 2832-2838.

Twitter Trend Extraction: A Graph-based Approach for Tweet and Hashtag Ranking, Utilizing No-Hashtag Tweets
Zahra Majdabadi, Behnam Sabeti, Preni Golazizian, Seyed Arad Ashrafi Asli, Omid Momenzadeh and Reza Fahmi, *International Conference on Language Resources and Evaluation (LREC)*, 2020, Marseille, France, pages 6215-6221.

Optimizing Annotation Effort Using Active Learning Strategies: A Sentiment Analysis Case Study in Persian
Seyed Arad Ashrafi Asli, Behnam Sabeti, Zahra Majdabadi, Preni Golazizian, , Omid Momenzadeh and Reza Fahmi, *International Conference on Language Resources and Evaluation (LREC)*, 2020, Marseille, France, pages 2848-2854.

Research and Work Experiences

Data Scientist | IDEHHUB Consulting Company | January 2020 – Present | 24 hours/week

- Designing a new platform for managing data acquired from clients to automatically find patterns and anomalies in data provided by clients for investment
- Automation of managing disjoint financial data sets with in-built audit & controls
- Designing custom algorithms for specific projects to analyze public or private data
- Leveraging big data analytics to provide valuable market insights, analysis, and strategy tailored to our clients
- Trend prediction in financial data using pattern recognition methods and machine learning models
- Deep reinforcement learning for market behavior prediction
- Designing evaluation criteria for machine learning models in financial systems

Remote Collaboration | University of Amsterdam | September 2020 – Present | 24 hours/week

Detecting Social media users' attitudes toward different protocols of Covid-19 (such as mask, stay-home order, etc.), and exploring the potential causal relationship between users' attitudes and real-world Covid-related statistics such as daily cases and government measures. Working under the supervision of Prof. Evangelos Kanoulas and Dr. Mohammad Aliannejadi

Research Assistant | Sharif University of Technology | January 2020 – November 2020 | 24 hours/week

Worked on early fake news detection in social media. Combined a recurrent neural network, which predicts the label of a claim, with a network that learns halting-policy as a reinforcement-learning task.

NLP Research Intern | Miras Technologies | June 2019 – November 2019 | 45 hours/week

- Worked on *irony detection in Persian language* under the supervision of Dr. Behnam Sabeti. Developed an emoji prediction model at first, employed a transfer learning approach to detect irony in short texts. Proposed the first manually labeled dataset with irony tags and the largest dataset of Persian tweets with emoji labels.
- Contributed to a *twitter trend extraction* research project. Proposed a modified version of the RankClus algorithm to extract trends from the constructed tweets graph, and rank tweets, words, and hashtags in each trend concerning their importance and relevance to the topic.
- Contributed to a research project for *Optimizing Annotation Effort Using Active Learning.* Verified active learning approaches' compatibility with Persian. Proposed a novel active learning strategy based on topic modeling and entropy.

Skills

Data and Analytics Tools/Languages | Python, Tensorflow, Keras, Pytorch, SQL, Tableau, Microsoft PowerBI,

Data Analytical Skills | Data cleansing, modeling, and mining, Machine learning, Deep Learning, Natural Language Processing, Predictive modeling, Quantitative analysis, Big data

Soft Skills | Effective Communication, Critical thinking, Business Sense, Problem Solving

Other Tools and Technologies | LaTeX, MATLAB, Verilog, Altera Quartus, Modelsim

Other | Probability and Statistics, Linear Algebra, Artificial Intelligence, Technical Writing, Financial Statement Analysis, Building Issue Trees Based on Customers' Data

Relevant Courses | Stanford CS224N: NLP with Deep Learning, Machine Learning, Artificial Intelligence

Teaching Experiences

Head Teacher Assistant

"Artificial Intelligence" | Prof. Peyvandi | Spring semester – 2020

Teacher Assistant

"Digital Systems Design" | Prof. Ejlali| Spring semester - 2020

Teacher Assistant

"Database Design" | Prof. Heydarnoori | Spring semester - 2019

Teacher Assistant

"Analysis and Design of Systems" | Dr. Taromi Rad | Fall semester - 2019

Interests and Activities

Secondary Reviewer for EACL 2021 Conference

"Makeathon" 2017 Competition Event at SUT

Elected as one of the top five projects in Data Science field where accomplished:

- Business Model Creation
- MVP Production
- Effective Presentation for Investor and Scrum

Cultural Events Organizer at Armenian Ararat Organization | Since 2015

Student Parliament Member | 2014 - 2016

Interests | Theatre, Hiking, Psychology, Poetry, Fitness

Languages

Armenian – Persian | Native

English | Fluent | TOEFL score: 108 / 120