Bahar Sar-Saifee

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RESEARCH EXPERIENCE

Remote Research Assistant (Supervised by Prof. Fatemeh Daneshfar**)**   May. 2023 to Jan. 2025

University of Kurdistan, Sanandaj, Iran

- Development and Evaluation of Medical AI Models for Enhanced Diagnostic Accuracy and Patient Care
- ECG Signals Classification using Autoencoder and Neighborhood Attention Transformer for Improved Biomedical Accuracy.
- Expertise in Multi-View Representation Learning and Deep Embedded Clustering for Enhanced Accuracy and Efficiency in Multi-View Data.

Remote NLP Researcher (Supervised by Prof. Hiwa Asadpour)   Oct. 2023 to May. 2024

Startup Project, Frankfurt, Germany

- Kurdish Language Processing: Script Conversion and Named Entity Recognition (NER) for Low-Resource Language Applications.
- Development of Innovative Solutions to Improve Accuracy and Efficiency of Language Processing Models in Resource-Constrained Environments.

Graduate Researcher (Supervised by Prof. Jafar Tanha)   Dec. 2019 to May. 2023

University of Tabriz, Tabriz, Iran

- Sentiment Analysis Using Transformer-based Models and Deep Learning Networks.
- Applied Data Augmentation to Resolve Dataset Imbalance and Boosting Model Performance.

RELEVANT PROJECTS

Healthcare Recommendation System   Sep. 2023

- Machine Learning System for Disease Diagnosis & Drug Recommendation.

Multi-View Text Clustering with SBERT   Jun. 2023

- Multi-View Text Clustering with Sentence-BERT Representation.

Text Generation Using Deep Learning Techniques   Sep. 2022

- Hybrid Text Generation Model with Transformer Decoder, GRU, and Keyword Extraction.

NLP for Disaster Tweets   Aug. 2022

- Hybrid Disaster Tweet Model with Attention, BERT Tokenization & GloVe Embeddings.

Scholarly Knowledge Graph Generation   Jul. 2022

- CNN-Based Knowledge Graph Generation with Keyword Extraction (Knowledge Graph & YAKE).

Research Problem Extraction from NLP Scholarly Articles   Jul. 2022

- Research Problem Extraction System with Knowledge Graph & Multi-Method Keyword Extraction

Sentiment Classification on Unlabeled Social Media Data   Dec. 2018

- Sentiment Classification on Blog Data Using Machine Learning Techniques.

SKILLS & INTERESTS

- **Programming languages:** Python (Tensorflow, Keras, NLTK, NumPy, Pandas, SciKit-Learn, ...), Java
- **Programming Tools:** Anaconda, VS Code, Netbeans, Visual Studio, Weka
- **Language Skills:** Kurdish (Native), Persian (Native), English (Upper-Intermediate)
- **Research Interests:** Data Analysis, Natural Language Processing, Deep Learning, Large Language Models

EDUCATION

- **M.Sc., Software Engineering (GPA: 18.40/20),** *University of Tabriz, Iran*   Sep. 2018 to Feb. 2021
- B**.Sc., Software Engineering (GPA: 18.72/20),** *University of Kurdistan, Iran*   Sep. 2014 to Jul. 2018

PUBLICATIONS

- Daneshfar, F., **Sar Saifee, B.**, Soleymanbaigi, S., & Aeini, M. (2025). Elastic Deep Multi-view Autoencoder With Diversity Embedding. Information Sciences, 689, 121482.

- **Sar-Saifee, B.**, Tanha, J., & Aeini, M. (2023, January). A Hybrid Deep Learning Network for Sentiment Analysis on SemEval-2017 Dataset. In 2023 28th International Computer Conference, Computer Society of Iran (CSICC) (pp. 1-7). IEEE.

- **Sar-Saifee, B.**, & Tanha, J. (2021, July). Twitter Sentiment Analysis Using Deep Learning Techniques. In 5th International Conference on Science and Technology of Electrical, Computer and Mechanical Engineering of Iran.

PROFESSIONAL EXPERIENCE

- **Data Scientist Freelancer,** *Iran*   May. 2022 to Sep.2023
- **Graphic Designer,** APA Center, *University of Kurdistan, Iran*   Feb. 2020 to Sep. 2020

TEACHING EXPERIENCE

- **Teaching Assistant,** Principles of Database Design Course, *University of Kurdistan, Iran*   Fall 2018
- **Teaching Assistant,** Implementation of Database Systems Course, *University of Kurdistan, Iran*   Spring 2018
- **Teaching Assistant,** Software Engineering Course, *University of Kurdistan, Iran*   Spring 2018
- **Teaching Assistant,** Data Structure Course, *University of Kurdistan, Iran*   Fall 2017

REFERENCES

- **2025 Introduction to Spacy for Natural Language Processing,** *Online Course, Udemy*   Jan. 2025
- **Participation in the Conference,** *28th International Computer Conference, Iran*   Jan. 2023
- **100+ Exercises - Advanced Python Programming – 2022,** *Online Course, Udemy*   Jan. 2023
- **Python: Master Programming and Development with 15 Projects,** *Online Course, Udemy*   Jan. 2023
- **Python Programming - From Basics to Advanced Level [2022],** *Online Course, Udemy*   Oct. 2022
- **Machine Learning From Basic to Advanced,** *Online Course, Udemy*   Oct. 2022
- **Data Analysis Masterclass (4 courses in 1),** *Online Course, Udemy*   Aug. 2022
- **NLP Course for Beginner,** *Online Course, Udemy*   Aug. 2022
- **Python Complete Course for Python Beginners,** *Online Course, Udemy*   Jul. 2022
- **The Complete Python 3 Course: Beginner to Advanced!,** *Online Course, Udemy*   May. 2022
- **Machine Learning Real World projects in Python,** *Online Course, Udemy*   Jun. 2021
- **Machine Learning Crash Course,** *Online Course, Udemy*   Apr. 2021
- **NumPy for Data Science & Machine Learning,** *Online Course, Udemy*   Mar. 2021
- **Machine Learning - Regression and Classification (math Inc.),** *Online Course, Udemy*   Mar. 2021
- **Python for Machine Learning with Numpy, Pandas & Matplotlib,** *Online Course, Udemy*   Mar. 2021
- **Python-Introduction to Data Science and Machine Learning A-Z,** *Online Course, Udemy*   Mar. 2021
- **ICSD Paper Presentation Certification,** *5th Utconf, Iran*   Sep. 2020