

Bahar Sar Saifee

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EDUCATION

University of Tabriz

Tabriz, Iran

- M.Sc., Software Engineering. **GPA: 18.40/20**
- Relevant Coursework: Advanced Data Mining, Advanced Database

Sep. 2018 to Feb. 2021

University of Kurdistan

Sanandaj, Iran

- B.Sc., Software Engineering. **GPA: 18.72/20**
- Relevant Coursework: Artificial Intelligence, Fundamentals of Data Mining, Information Retrieval and Web Search, Implementation of Database Systems

Sep. 2014 to Jul. 2018

National Organization for Development of Exceptional Talents

Sanandaj, Iran

- Diploma, Mathematics, and Physics.

Sep. 2007 to Jun. 2014

RESEARCH EXPERIENCE

University of Tabriz

Tabriz, Iran

• Graduate Researcher

Feb. 2021 to Present

Research Subject: "Sentiment Analysis Using **Transformer-based Models** and Deep Learning Networks"

- Tokenization Using Bert Tokenizer
- Text Classification with Transformer Encoder

• Dissertation Research

Dec. 2019 to Feb. 2021

Dissertation: "Twitter Sentiment Analysis Using Deep Learning Techniques in SemEval-2017 Task 4 Dataset"

Supervisor: Prof. Jafar Tanha, **Grade: 20/20**

- Handle Imbalanced Dataset (Data Augmentation)
- 8% Improvement in Twitter Sentiment Classifier

PUBLICATIONS

- **Sar-Saifee Bahar**, Tanha Jafar, "A Hybrid Sentiment Analysis Approach Based on Transformer and Convolutional Neural Network", Journal of Neural Computing and Applications (**in Preparation**)
- **Sar-Saifee Bahar**, Jafar Tanha, and Mohammad Aeini. "A Hybrid Deep Learning Network for Sentiment Analysis on SemEval-2017 Dataset." 2023 28th International Computer Conference, Computer Society of Iran (CSICC). IEEE, 2023.
- **Sar-Saifee Bahar**, Tanha Jafar, 2021, "Twitter Sentiment Analysis Using Deep Learning Techniques", 5th International Conference on Science and Technology of Electrical, Computer and Mechanical Engineering of Iran, Tehran, <https://civilica.com/doc/1238171/>

RELEVANT PROJECTS

Text Generation Using Deep Learning Techniques

Sep. 2022

- Tokenizing by N-gram
- A Hybrid Model Based on Transformer Decoder and GRU Network
- Using Keyword Extraction Methods; Knowledge Graph, Yake

Natural Language Processing with Disaster Tweets

Aug. 2022

- Tokenization Using BERT Tokenizer
- Using Pre-trained Glove Embedding
- A Hybrid Model Based on Attention Mechanism and Deep Learning Techniques

Scholarly Knowledge Graph Generation

Jul. 2022

- Using Keyword Extraction Methods; Knowledge Graph, Yake
- Tokenization Using BERT Tokenizer
- A Model Based on CNN Networks

Research Problem Extraction System from NLP Scholarly Articles	Jul. 2022
<ul style="list-style-type: none"> On the SemEval-2021 Task 11 Dataset Keyphrase Extraction Using Knowledge Graph Using Keyword Extraction Methods; Spacy, Texttrank, Yake, KeyBert, Rake_NLTK 	
Sentiment Classification on Unlabeled Dataset	Dec. 2018
<ul style="list-style-type: none"> On the Social Media (Blogs) Dataset Using Machine Learning Methods 	
Text Classification and Train Classifiers	Nov. 2018
<ul style="list-style-type: none"> On the Collection of Sentences from Wikipedia Train the IBk, NB, J48, and JRip Classifiers 	

HONORS & AWARDS

University of Tabriz	Tabriz, Iran
<ul style="list-style-type: none"> Ranked 1st in GPA among all Master students of computer engineering department Full-tuition scholarship awarded, Master programs at computer engineering department 	2018 to 2020 2018 to 2020
University of Kurdistan	Sanandaj, Iran
<ul style="list-style-type: none"> Ranked 1st in GPA among all Bachelor students of computer engineering department Full-tuition scholarship awarded, Bachelor programs at computer engineering department Ranked 1st in ACM contest 	2014 to 2018 2014 to 2018 Feb. 2016

TEACHING EXPERIENCE

University of Kurdistan	Sanandaj, Iran
<ul style="list-style-type: none"> Teaching Assistant, Principles of Database Design Course Teaching Assistant, Implementation of Database Systems Course Teaching Assistant, Software Engineering Course Teaching Assistant, Data Structure Course 	Fall 2018 Spring 2018 Spring 2018 Fall 2017

SKILLS & INTERESTS

- Programming languages:** Python (Tensorflow, Keras, NLTK, NumPy, Pandas, SciKit-Learn, ...), Java, C/C++, Android, HTML, CSS
- Programming Tools:** Anaconda, Netbeans, Visual Studio, Android Studio, Weka
- Language Skills:** Kurdish (Native), Persian (Native), English (Upper-Intermediate)
- Research Interests:** Natural Language Processing, Deep Learning, Information Retrieval

PROFESSIONAL EXPERIENCE

University of Kurdistan	Sanandaj, Iran
<ul style="list-style-type: none"> APA Center, Graphic Designer Technology Units Development Center, Android Developer Intern 	Feb. 2020 to Sep. 2020 Jun. 2017 to Sep. 2017

CERTIFICATION

<ul style="list-style-type: none"> Participation in the Conference, <u>28th International Computer Conference</u>, Tehran, Iran 100+ Exercises - Advanced Python Programming – 2022, Online Course, Udemy Python : Master Programming and Development with 15 Projects, Online Course, Udemy Python Programming - From Basics to Advanced level [2022], Online Course, Udemy Machine Learning From Basic to Advanced, Online Course, Udemy Data Analysis Masterclass (4 courses in 1), Online Course, Udemy NLP Course for Beginner, Online Course, Udemy 	Jan. 2023 Jan. 2023 Jan. 2023 Oct. 2022 Oct. 2022 Aug. 2022 Aug. 2022
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- **Python Complete Course For Python Beginners**, Online Course, Udemy Jul. 2022
- **The Complete Python 3 Course: Beginner to Advanced!**, Online Course, Udemy May. 2022
- **Participation in The Conference, 5th Utconf**, Tehran, Iran May. 2021
- **Machine Learning Crash Course**, Online Course, Udemy Apr. 2021
- **NumPy for Data Science & Machine Learning**, 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**, Tehran, Iran Sep. 2020