

## Bahar Sar Saifee

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### EDUCATION

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#### University of Tabriz

Tabriz, Iran

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

Sep. 2018 to Feb. 2021

#### University of Kurdistan

Sanandaj, Iran

- B.Sc., Software Engineering. **GPA:** 18.72/20
- Relevant Coursework: Artificial Intelligence, Basics of Data Mining, 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

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#### University of Tabriz

Tabriz, Iran

##### • 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

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

### RELEVANT PROJECTS

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#### 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

- Extracting Research Themes
- 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

- On the SemEval-2021 Task 11 Dataset
- Keyphrase Extraction Using Knowledge Graph
- Using Keyword Extraction Methods; Spacy, Textrank, Yake, KeyBERT, Rake\_NLTK

## Sentiment Classification on Unlabeled Dataset

Dec. 2018

- On the Social Media (Blogs) Dataset
- Using Machine Learning Methods

## Text Classification and Train Classifiers

Nov. 2018

- On the Collection of Sentences from Wikipedia
- Train the IBk, NB, J48, and JRip Classifiers

## HONORS & AWARDS

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### University of Tabriz

Tabriz, Iran

- Ranked 2nd in GPA among all Master students of computer engineering department 2018 to 2020
- Full-tuition scholarship awarded, Master programs at computer engineering department 2018 to 2020

### University of Kurdistan

Sanandaj, Iran

- Ranked 1st in GPA among all Bachelor students of computer engineering department 2014 to 2018
- Full-tuition scholarship awarded, Bachelor programs at computer engineering department 2014 to 2018
- Ranked 1st in ACM contest Feb. 2016

## TEACHING EXPERIENCE

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### University of Kurdistan

Sanandaj, Iran

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

## SKILLS & INTERESTS

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- **Programming languages:** Python, 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, Computer Vision

## PROFESSIONAL EXPERIENCE

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### University of Kurdistan

Sanandaj, Iran

- **APA Center**, Graphic Designer Feb. 2020 to Sep. 2020
- **Technology Units Development Center**, Android Developer Intern Jun. 2017 to Sep. 2017

## CERTIFICATION

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- **Participation in the Conference**, 28th International Computer Conference, Tehran, 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
- **Participation in The Conference**, 5<sup>th</sup> 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**, 5<sup>th</sup> Utconf, Tehran, Iran Sep. 2020