Bahar Sar Saifee

Keshavarz Town, 15 Khordad Street • Sanandaj, Iran
(+98)9366610117 • Baharsarsaifee@gmail.com • Homepage

EDUCATION

University of Tabriz **Tabriz, Iran**
- M.Sc., Software Engineering. **GPA: 18.40/20** Sep. 2018 to Feb. 2021
- Relevant Coursework: Advanced Data Mining, Advanced Database

University of Kurdistan **Sanandaj, Iran**
- B.Sc., Software Engineering. **GPA: 18.72/20** Sep. 2014 to Jul. 2018
- Relevant Coursework: Artificial Intelligence, Fundamentals of Data Mining, Information Retrieval and Web Search, Implementation of Database Systems

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**, 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", 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
- 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

University of Tabriz **Tabriz, Iran**
- Ranked 1st 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

University of Kurdistan **Sanandaj, Iran**
- **Teaching Assistant,** Principles of Database Design 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

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

CERTIFICATION

- **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,** 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