Benyamin *Ramezani*

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Education

B.Eng. Computer Engineering   CGPA: 3.14/4, **Final-year GPA**: **3.82/4**   Sep 2019 – Feb 2024

University of Guilan

Selected courses: Fundamentals of Speech and Natural Language Processing: 4/4, Artificial Intelligence and Expert Systems: 4/4, Algorithms Design: 3/4, Research & Presentation Method: 4/4

Research Interests

- Natural Language Processing
- Large Language Models
- Machine Learning
- Deep Learning
- Computer Vision
- Reinforcement Learning

Research Experience

Undergraduate Research Assistant, *University of Guilan, NLP Group*   Nov 2023 – Jul 2024

- Conducted a research project under Dr. Mirroshandel's supervision to improve **text classification** using **transformer** models and **contrastive learning** technique.
- Fine-tuned the **pre-trained BERT model** on the **customer reviews dataset**, achieving a slight accuracy improvement.
- **Designed and implemented** a contrastive learning pipeline, leading the full-cycle model development from data preprocessing to experiment design and performance evaluation.

Selected Projects (More Projects on GitHub)

Fine-Tuning BERT Model for Sentiment Analysis on CR Dataset

- Utilized **PyTorch** for implementation, incorporating **k-fold cross-validation**.

Face Recognition using Siamese Neural Networks

- Implemented a One-shot Siamese Neural Network for face recognition **paper** using **TensorFlow**.

Traffic Sign Image Classification

- **fully connected network** were implemented using **ReLU** and **Softmax activation** functions.

Drink Water Reminder

- An **Android app** in **Java** that helps people track their water intake based on their weight and workout time.

Fantasy Football Optimizer

- **Machine learning** and **linear programming** were used to suggest an optimized fantasy football team.

Work Experiences

Teaching Assistant, Microprocessors and Assembly Language   Spring 2023, Fall 2022
University of Guilan, Instructor: Dr. H. Ahmadifar

Teaching Assistant, Advanced Programming   Fall 2021
University of Guilan, Instructor: Dr. A. Khozaei

Certificates and Relevant Courses

- IELTS Score: **7.5** (Listening: 8, Reading: 7, Writing: 7, Speaking: 7)   Nov 2024

- Deep Multi-Task and Meta Learning   Dec 2023
  Stanford University CS330

- Improving Deep Neural Networks: Hyper parameter Tuning, Regularization and Optimization – Coursera 🔗   Aug 2023

- Neural Network and Deep Learning – Coursera 🔗   Jul 2023

- Supervised Machine Learning: Regression and Classification – Coursera 🔗   Feb 2023

- Data Structures and Algorithms Specialization Coursera, University of California San Diego 🔗   Aug 2022

Skills

- **Programming Languages:** Python, Java, C++, Kotlin, JavaScript, PHP
- **Data Science Tools:** Matplotlib, NumPy, pandas
- **Web Development:** HTML, CSS, JavaScript
- **Machine Learning Frameworks:** PyTorch, TensorFlow, Keras, Hugging Face, Gym
- **Natural Language Processing:** NLTK, spaCy, Transformers, BERT, RNN, LSTM
- **Non-Technical Expertise:** Problem Solving, Teaching, Self-Learning
- **Extra tools/Others:** Git, LaTex, Trello, Figma, MySQL, Android Development, Linux (Debian-based)

Honors & Awards

- Ranked among the top 21% of 164,278 participants in the National Exam for Undergraduate State Universities.
- Admitted to the University of Guilan, a government-funded institution, based on top performance in the National University Entrance Exam

References

Dr. Seyed Abolghasem Mirroshandel (Final project supervisor)   Google Scholar
Email: mirroshandel@guilan.ac.ir
Associate Professor, Computer Engineering Department, University of Guilan, Rasht, Iran

Dr. Mahdi Aminian   Google Scholar
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Assistant Professor, Computer Engineering Department, University of Guilan, Rasht, Iran

Dr. HamidReza Ahmadifar   Google Scholar
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Assistant Professor, Computer Engineering Department, University of Guilan, Rasht, Iran