

# BENYAMIN RAMEZANI

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## Education

B.Sc. in Computer Engineering

*University of Guilan*

**GPA (Final year): 3.82/4**

**CGPA: 3.13/4**

Sep 2019 – Feb 2024

## Research Interests

- Deep Learning
- NLP
- Transformers & LLM
- Machine Learning
- Computer Vision
- Reinforcement Learning

## Research Experiences

- **Text classification** Nov 2023 - present  
**Benyamin Ramezani**, Arash yousefi, Seyed Abolghasem Mirroshandel
- In this research project, we employed **contrastive learning** to improve the accuracy of the pre-trained **BERT** model on text datasets such as **CR**, **SST-2**, and **IMDB**.

## Skills

- **Programming Languages:** Python, Java, C++, Kotlin, Java Script, Php
- **Data Science Tools:** Matplotlib, NumPy, Pandas
- **Web Development:** HTML, CSS, Java Script
- **Machine Learning Frameworks:** PyTorch, Tensorflow, Keras, Huggingface, Gym
- **Natural Language Processing:** NLTK, spaCy, Transformers, BERT, RNN, LSTM, LLM
- **Non-Technical Expertise:** Problem Solving, Teaching, Self-Learning
- **Extra tools/Others:** Git, Latex, Trello, Figma, MySQL, Android development, Linux(Debian-based)

## Selected Projects (More Projects on GitHub)

- **Fine-Tuning BERT Model for sentiment Analysis on CR dataset** [\[GitHub Repository\]](#)
  - Utilized **PyTorch** for implementation, incorporating **k-fold cross-validation**.
  - Leveraged the powerful contextual understanding of **BERT** for sentiment classification.
  - Achieved an average accuracy of **90.29%** and F1-Score of **92.55%** after 10-fold cross-validation.

- **Face Recognition using Siamese Neural Networks** [\[GitHub Repository\]](#)
  - Implemented One-shot Siamese Neural Network for face recognition **paper** using **TensorFlow**.
  - Libraries such as **OpenCV**, **NumPy** and **Matplotlib** were used.
  - Obtained training data from a webcam, around 800 images. Designed the Model to receive two input images and classify them using **sigmoid activation**.
- **Traffic Sign Image Classification** [\[GitHub Repository\]](#)
  - In this project **Fully Connected Network** were implemented using **ReLU** and **Softmax activation** functions.
  - Libraries such as **NumPy**, **pandas** and **Matplotlib** were used.
- **Drink Water Reminder** [\[GitHub Repository\]](#)
  - In this project I developed an **Android app** in **Java** that helps people track their water intake based on their weight and workout time.
  - Through this project **OOP** concept were used to implement classes.
  - Utilized **XML**, for defining layouts and UI elements.
  - Employed **Fragments** for modularizing UI components.

## Honors & Awards

- Tuition Waiver, B.Sc., University of Guilan
- Ranked as Top 0.5% among the 164,278 participants in National Exam for Undergraduate State Universities

## Languages

- English: Fluent (IELTS Score: Overall 7.5 – L: 8, R: 7, W: 7, S: 7)

## Certificates and Relevant Courses

- |  |   |
|--|---|
| • <b>Deep Multi-Task and Meta Learning</b><br>Stanford University CS330                                    | Instructor: Chelsea Finn<br>Dec - 2023                                |
| • <b>Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization</b> - Coursera | Instructor: Andrew Ng<br>Aug - 2023 <a href="#">[Certificate]</a>     |
| • <b>Neural Network and Deep Learning</b> - Coursera   | Instructor: Andrew Ng<br>Jul - 2023 <a href="#">[Certificate]</a>     |
| • <b>Supervised Machine Learning: Regression and Classification</b> - Coursera                             | Instructor: Andrew Ng<br>Feb - 2023 <a href="#">[Certificate]</a>     |
| • <b>Data Structures and Algorithms Specialization</b><br>Coursera, University of California San Diego     | Instructor: Pavel Pevzner<br>Aug - 2022 <a href="#">[Certificate]</a> |

## Selected Courses

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|--|----------|
| • Fundamentals of Speech and Natural Language Processing | GPA: 4/4 |
| • Artificial Intelligence and Expert Systems             | GPA: 4/4 |
| • Algorithms Design                                      | GPA: 3/4 |

• Principles of Database Design	GPA: 4/4
• Research & Presentation Method	GPA: 4/4
• Microprocessors and Assembly Language	GPA: 4/4
• Internet Engineering	GPA: 4/4
• Fundamentals of Compiler Design	GPA: 4/4
• Electronic Circuits	GPA: 4/4
• Computer Aided Digital System Design	GPA: 4/4

## Teaching Assistant Experiences

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- **Microprocessors and Assembly Language** (University of Guilan – Spring 2023)  
Instructor: Dr. H. Ahmadifar  
*I was responsible for the assessment of students' assignments and projects*
- **Microprocessors and Assembly Language** (University of Guilan – Fall 2022)  
Instructor: Dr. H. Ahmadifar  
*I was responsible for the assessment of students' assignments and projects*
- **Advanced Programming** (University of Guilan – Fall 2021)  
Instructor: Dr. A. Khozaei  
*I was responsible for assessment of students' assignments and projects, preparing assignments and Final Project, being in touch with students in order to answer their questions*

## References

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**Dr. Seyed Abolghasem Mirroshandel** (thesis supervisor)  
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