





# REZA NOURALIZADEH GANJI

✉ [rezang52@gmail.com](mailto:rezang52@gmail.com)

🌐 [linkedin.com/in/reza-ganji](https://www.linkedin.com/in/reza-ganji)

🏠 [rezang.github.io](https://rezang.github.io)

## EDUCATION

- 
- |  |              |
|--|--------------|
| <b>Master of Artificial Intelligence</b>   | 2020 – 2023  |
| K. N. T. University of Technology  | Tehran, Iran |
| <ul style="list-style-type: none"><li>• <b>Notable Courses:</b> Natural Language Processing, Neural Networks, Recommender Systems, Information Retrieval, Evolutionary Computation</li><li>• <b>Thesis:</b> Sentiment Analysis of Short and Incomplete Text using Transformers and Attention Mechanism; under supervision of <i>Dr. Chitra Dadkhah</i> </li><li>• <b>Thesis Grade:</b> (waiting for defense)</li><li>• <b>GPA:</b> (18.32/20 – 3.88/4)</li></ul>                                      |              |
| <b>Bachelor of Computer (Software) Engineering</b>   | 2017 – 2020  |
| Shomal University  | Amol, Iran   |
| <ul style="list-style-type: none"><li>• <b>Notable Courses:</b> Machine Learning, Artificial Intelligence, Algorithm Design, Data Structures, Formal Languages and Automata Theory, Engineering Probability and Statistics</li><li>• <b>Thesis:</b> A machine learning-based model for spam detection on mobile phone short message service (SMS); under supervision of <i>Dr. Hamidreza Koochi</i> </li><li>• <b>Thesis Grade:</b> (20/20 – 4/4)</li><li>• <b>GPA:</b> (17.61/20 – 3.44/4)</li></ul> |              |

## RESEARCH INTERESTS

---

💠 Natural Language Processing	💠 Deep Learning	💠 Machine Learning
💠 Information Retrieval	💠 Sentiment Analysis	💠 Computational Linguistics

## SKILLS

---

**Programming:** Skilled in Python, Familiar with: PHP, HTML, CSS

**Deep Learning:** Transformers, Attention mechanisms, Recurrent Neural Network (RNN), Long Short Term Memory (LSTM), Gated Recurrent Unit (GRU), Auto Encoders

**Machine Learning:** Clustering, Decision Tree, Support Vector Machine (SVM), Multi-Layer Perceptron (MLP), Ensemble Models, Logistic Regression

**AI Packages:** Pytorch, Numpy, Pandas, Matplotlib, WandB, PLOtly, Scikit-learn

**Languages:** Persian (Farsi), English

**Industry Knowledges:** Documentation, Presentation

## WORK EXPERIENCE

- 
- |   |                           |
|---|---------------------------|
| <b>SEO Specialist</b>   | April 2018 – October 2019 |
| Nooshika Corp.  | Babol, Iran               |
| <ul style="list-style-type: none"><li>• Producing new content for online publications that addresses the needs of a specified demographic.</li><li>• Provide developers and content creators with technical advice on how to improve the performance of web pages.</li><li>• Keeping up to date with developments requires constant monitoring of the algorithms that are used by search engines.</li></ul> |                           |

## LICENSES & CERTIFICATIONS

---

### Natural Language Processing Specialization [↗](#)

Younes Bensouda Mourri, Łukasz Kaiser

Coursera  
February 2022

- In this four-course specialization, students learn how to construct applications for NLP activities including question answering and sentiment analysis, and how to create translation, summarization, and chatbot tools.
- **Credential ID:** LCKQELFDBRYW

### Deep Learning Specialization [↗](#)

Andrew NG, Kian Katanforoosh, Younes Bensouda Mourri

Coursera  
December 2021

- The five courses in this specialization educate students how to design, develop, and optimise CNNs, RNNs, LSTMs, and Transformers utilising Dropout, BatchNorm, Xavier/He initialization, and other approaches.
- **Credential ID:** K8PGAYP9BUZC

## PUBLICATIONS

---

### PAMR: Persian Abstract Meaning Representation Corpus

Tohidi, N., Dadkhah, C., Ganji, R.N., Sadr, E.G., Elmi, H.

Submitted  
2022

- Tohidi, N., Dadkhah, C., Ganji, R.N., Sadr, E.G., Elmi, H. (2022). PAMR: Persian Abstract Meaning Representation Corpus.

### Enhanced Hotel Recommender System based on Sentiment Analysis

Ganji, R.N., Dadkhah, C., Tohidi, N.

Submitted  
2022

- Ganji, R.N., Dadkhah, C., Tohidi, N. (2022). Enhanced Hotel Recommender System based on Sentiment Analysis through an Attention Based Deep Learning Model and Data Augmentation.

### Sentiment Analysis of Short and Incomplete Text

Ganji, R.N., Dadkhah, C.

Submitted  
2023

- Ganji, R.N., Dadkhah, C. (2023). Sentiment Analysis of Short and Incomplete Text using Transformers and Attention Mechanism.

## SELECTED PROJECTS

---

### Sentiment analysis on twitter tweets about COVID-19 vaccines

🔗 Python

Spring 2021

- A model for doing sentiment analysis on tweets pertaining to COVID-19 vaccinations was formulated by combining a bio-inspired Cuckoo Search (CS) optimisation algorithm with a K-means clustering method.

### Search engine for Persian poems

🔗 Python

Fall 2020

- Using the Whoosh Python package to create a search engine for Persian poems. The resulting search engine would be able to index large quantities of structured texts and return relevant results based on the user's query.

### Spam detection with machine learning-based model

🔗 Python

Winter 2020

- Building a model for determining if a mobile short message is a spam or not was the goal of this research project. The constructed model uses the naive Bayes and bag of words algorithms, which both produce accurate and efficient results.

## CONFERENCES & PRESENTATIONS

---

### Neural-based approaches for sentiment analysis

KNTU University Master's Research Seminar

February 2022

### Applications of Monte Carlo sampling in data mining

KNTU University Data Mining's Research Seminar

June 2021

### Bio-Inspired algorithms for sentiment analysis

KNTU University Evolutionary Computation's Research Seminar

May 2021

### How do search engines use machine learning methods?

Shomal University Artificial Intelligence's Research Seminar

May 2019