

# Mohammad Namvarpour

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## EDUCATION

### K. N. Toosi University of Technology

Tehran, Iran

*Master of Artificial Intelligence*

2020-2022

- Thesis: Speech emotion recognition using neural attention-based architectures
- Notable Courses: Machine Learning, Neural Networks, Pattern Recognition, Natural Language Processing, Speech Processing
- GPA: 18.15/20 (4/4)

### Iran University of Science and Technology

Tehran, Iran

*Bachelor of Mechanical Engineering*

2016-2020

- GPA: 15.97/20 (3.2/4)

## EXPERIENCE

### Teacher Assistant

February 2022 – July 2022

*K. N. Toosi University of Technology*

*Tehran, Iran*

- Speech and Natural Language Processing course

### Teacher Assistant

October 2021 – December 2021

*K. N. Toosi University of Technology*

*Tehran, Iran*

- Machine Learning course

## RESEARCH INTERESTS

Machine Learning

Speech Processing

Natural Language Processing

## TECHNICAL SKILLS

**Programming Languages:** Python

**Libraries:** Pytorch, Keras, Scikit-Learn, WandB, Gradio, HuggingFace, Numpy, Pandas, Matplotlib, Seaborn, Plotly

**Industry Knowledge:** Presentation

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

## PROJECTS

### Shereno: A Dataset of Persian Modernist Poetry

December 2021 - January 2022

*Dataset*

- Available on Kaggle: [kaggle.com/datasets/elhamaghakhani/persian-poems](https://kaggle.com/datasets/elhamaghakhani/persian-poems)
- Web scraped from shereno.com utilizing the beautiful soup library, this collection of Persian modernist poetry includes over 4000 poems by Iranian contemporary poets. Each poem's metadata, including the title, author, and title of the book, has also been scraped.
- Created in collaboration of Ms. Elham Aghakhani, AI Student at K.N. Toosi University

### Persian Questions Dataset

December 2020 - February 2021

*Dataset*

- Available on Kaggle: [kaggle.com/datasets/halfingwizard/persian-questions](https://kaggle.com/datasets/halfingwizard/persian-questions)
- A set of 600 simple Persian questions in 4 different categories that were hand crafted with the intention of teaching a voice assistant.
- Created in collaboration of Ms. Fatemeh Naderi, CE Student at Ferdowsi University of Mashhad

### Persian (Farsi) Intent Classification and Slot Filling

October 2020 - January 2021

*Deep learning model*

- Github Repo: [github.com/HalfingWizard/FA-Intent-Classification-and-Slot-Filling](https://github.com/HalfingWizard/FA-Intent-Classification-and-Slot-Filling)

- A Joint Model for Intent Classification and Slot Filling in Persian Language using BERT. The Keras library was used to build the neural network, and HuggingFace was used to load the ParsBERT language model, which is the Persian equivalent of the BERT language model.

## Thermodynamic Calculator

April 2019 - May 2019

*Android app*

- Available on Cafe Bazaar (an Iranian android app store): [cafebazaar.ir/app/com.namiapps.thermocalc](https://cafebazaar.ir/app/com.namiapps.thermocalc)
- "Thermodynamic Calculator" is a native android app that enables you to calculate thermodynamic properties of different industrial important materials based on the CoolProp thermophysical properties database for pure fluids.

## BMI Calculator

August 2021- April 2017

*Android app*

- Available on Cafe Bazaar (an Iranian android app store): [cafebazaar.ir/app/com.namiapps.bmical](https://cafebazaar.ir/app/com.namiapps.bmical)
- A simple BMI calculator android app created using front-end web development skills with the help of the Cordova SDK. This straightforward program determines the user's BMI based on their height and weight. Additionally, it suggests a healthy weight for them.

## LICENSES & CERTIFICATIONS

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### IELTS Academic Training (Overall Band Score: 8.0)

November 2021 - November 2023

*IELTS Official*

- Credential ID: 21IR010182NAMM120A
- Listening: 8.5
- Reading: 9.0
- Writing: 7.5
- Speaking: 7.0

### Deep Learning: Applications & Tools

March 2021

*IEEE Iran section*

- Credential ID: 147489

### Deep Learning Specialization

September 2020

*Coursera*

- Credential ID: 89JQ3X8BNLWQ

## HOBBIES

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### YouTube Channel (HalflingWizard)

April 2021 - Present

*YouTube*

- Channel link: [youtube.com/c/HalflingWizard](https://youtube.com/c/HalflingWizard)
- Channel contains videos about artificial intelligence, machine learning, and deep learning.

## HONORS & AWARDS

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### LG Global Challenger Competition 2018 Finalist

August 2018

*LG Electronics DFZE, Tehran Liaison Office*

- Research Expedition to China funded by LG Electronics DFZE, Tehran Liaison Office