Mohammad Namvarpour

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EDUCATION

K. N. Toosi University of Technology   Tehran, Iran
Master of Artificial Inteligence   *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
- 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/halflingwizard/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/HalflingWizard/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
Android app
<div align="right">April 2019 - May 2019</div>

- Available on Cafe Bazaar (an Iranian android app store): 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
Android app
<div align="right">August 2016- April 2017</div>

- Available on Cafe Bazaar (an Iranian android app store): 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

IELTS Academic Training (Overall Band Score: 8.0)
IELTS Official
<div align="right">November 2021 - November 2023</div>

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

Deep Learning: Applications & Tools
IEEE Iran section
<div align="right">March 2021</div>

- Credential ID: 147489

Deep Learning Specialization
Coursera
<div align="right">September 2020</div>

- Credential ID: 89JQ3X8BNLWQ

HOBBIES

YouTube Channel (HalflingWizard)
YouTube
<div align="right">April 2021 - Present</div>

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

HONORS & AWARDS

LG Global Challenger Competition 2018 Finalist
LG Electronics DFZE, Tehran Liaison Office
<div align="right">August 2018</div>

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