Mohammad "Matt" Namvarpour

halflingwizard.github.io | mnamvarpour@gmail.com | linkedin.com/in/matt-namvarpour

EDUCATION

Drexel University — Philadelphia, PA
PhD in Information Science — *2023-Present*

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

Human-AI Interaction
Machine Learning
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.

LICENSES & CERTIFICATIONS

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
- Workshop held in conjunction with 26th Computer Society International Computer Conference
- Covered topics: Review and introduction of various areas of deep learning, including machine vision, natural language and sound processing, GAN models and deep reinforcement learning systems

Deep Learning Specialization — September 2020
Coursera
- Credential ID: 89JQ3X8BNLWQ
- Composed of 4 courses: 1- Neural Networks and Deep Learning, 2- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization, 3- Structuring Machine Learning Projects, 4- Convolutional Neural Networks, 5- Sequence Models

HOBBIES

YouTube Channel (HalflingWizard) — April 2021 - Present
YouTube
- 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 — August 2018
LG Electronics DFZE, Tehran Liaison Office
- Research Expedition to China funded by LG Electronics DFZE, Tehran Liaison Office