

Shahrzad Shashaani

📍 Vienna, Austria ✉ shahrzad.shashaani@gmail.com 🏠 Shahrzad Shashaani

🔗 <https://shahrzad-sh.github.io/Shahrzad-Shashaani.github.io/> 🌐 <https://github.com/Shahrzad-sh>

Profile

I am a motivated computer scientist, who has experience in various Machine Learning and Deep Learning tasks. Based on different academic and professional projects, I gained valuable knowledge and experience in using different programming languages and useful frameworks that are essential for my interest domains. My specific research interests are Computer Vision and Recommender Systems, which my goal is to improve the results and add explainability to the employed Neural Networks. Therefore, I am interested in contributing to various kinds of projects in the fast-growing Artificial Intelligence field.

Education

03/2024 – present Vienna, Austria	PhD in Computer Science <i>Technische Universität Wien</i> 🔗 Thesis (initial) Title: Explainability in Music Recommender Systems Supervisor: Peter Knees 🔗
09/2020 – 02/2023 Tehran, Iran	Master of Science in Artificial Intelligence <i>K. N. Toosi University of Technology</i> 🔗 GPA: 4/4 (18.95/20), <i>First-Class Honours</i> Thesis Title: Using Convolutional Neural Networks for Off-road Path Detection in Self-driving Cars Supervisor: Mohammad Teshnehlal 🔗
09/2016 – 09/2020 Tehran, Iran	Bachelor of Science in Computer Engineering <i>K. N. Toosi University of Technology</i> 🔗 GPA: 3.89/4 (18.53/20), <i>Distinction</i> Thesis Title: Hospital Data Analysis Using Nonlinear Regression and Fuzzy Neural Networks Supervisor: Mohammad Teshnehlal 🔗

Publications

- S. Shashaani**, M. Teshnehlal, A. Khodadadian, T. Wick, and N. Noii. "Using layer-wise training for Road Semantic Segmentation in Autonomous Cars." *IEEE ACCESS* (2023), DOI: 10.1109/ACCESS.2023.3255988. 🔗
- S. Lotfi, M. Modirrousta, **S. Shashaani**, M. Aliyari Shoorehdeli. "Network Intrusion Detection with Limited Labeled Data Using Self-supervision." *arXiv preprint arXiv:2209.03147*. (2022). 🔗
- S. Mehralian, E. Jalaiean Zaferani, **S. Shashaani**, F. Kashefinishabouri, M. Teshnehlal, H. Ali Sokhandan, Z. Dibaji Forooshani, B. Montazer, Z. Joneidi, and M. Vafapeyvand. "Rapid COVID-19 Screening Based on the Blood Test using Artificial Intelligence Methods." *Journal of Control* 14, no. 5 (2021): 131-140. 🔗

Teaching Experience

2021 – 2023	Teaching Assistant Neural Networks and Deep Learning, Artificial Intelligence Department, K. N. Toosi University of Technology Lecturer: Mohammad Teshnehlal 🔗
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Professional Experience

10/2023 – present
Vienna, Austria

Project Assistant

FWF Project, Technische Universität Wien

Main Experience

- Learning different types of Recommender Systems
- Researching different concepts of Explainability
- Using Spotify Dataset and searching for other available Music Datasets that are suitable for Recommender Systems and Explainability
- Developing a Deep Learning Model with high recommendation performance and trying to generate meaningful explanations for the given recommendation

Reference: Peter Knees [↗](#)

01/2019 – 02/2023
Tehran, Iran

Research Assistant

K. N. Toosi ISLAB(Intelligent Systems Laboratory)

Main Experience

- Worked as a member of the COVID-19 diagnosis project
- Worked as a member of the path detection project

Reference: Mohammad Teshnehlab [↗](#)

12/2021 – 06/2022
Tehran, Iran

Part-time Developer

TelC International Communication Company [↗](#)

Main Experience

- Developing some parts of an existing database using MySQL
- Finding and extracting useful information from registered records
- Developing a simple recommender system for defined customer care app using Python

09/2020 – 12/2021
Tehran, Iran

Team Member of SR2119 Social Robot Developing Project

AICell Startup [↗](#)

Main Experience

- Machine Vision
 - Face Detection and Recognition
 - Face Tracking
 - Age-Gender Estimation

Catalog Link: SR2119 Robot [↗](#)

Reference: Sajjad Amini [s_amin@sharif.edu]

06/2019 – 09/2019
Tehran, Iran

Internship

Assessment of Electronic Health Record System of Iran Health Organization, Iran
Telecommunication Research Center(ITRC) [↗](#)

Main Experience

- Testing Electronic Health Record System (SEPAS)
- Developing Record Comparator Tool with Python

Reference: Mohammad Azadnia [azadnia@itrc.ac.ir]

06/2018 – 09/2018
Tehran, Iran

Part-time Developer

Android Application, Arena Group

Main Experience

- Developing Android Program for Students Curriculum Management

Download Link: Sakoo App [↗](#)

Skills

Deep Learning Libraries and Frameworks

Pytorch/ TensorFlow/ Keras

Programming Languages and Tools

Python / MATLAB / Weka / C++

Machine Learning Libraries and Frameworks

scikit-learn / OpenCV / Dlib / mediapipe

Other Libraries and Frameworks

Numpy / Pandas / Matplotlib