Shahrzad Shashaani

 ♥ Vienna, Austria
 Shahrzad.shashaani@gmail.com

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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 PhD in Computer Science
Vienna, Austria Technische Universität Wien ℰ

Thesis (initial) Title: Explainability in Music Recommender Systems

Supervisor: Peter Knees *⊘*

09/2020 – 02/2023 Master of Science in Artificial Intelligence

Tehran, Iran K. N. Toosi University of Technology ⊗

GPA: 18.95/20, First-Class Honours

Thesis Title: Using layer-wise training for Off-road Path Detection in Self-driving Cars

Supervisor: Mohammad Teshnehlab *⊘*

09/2016 – 09/2020 Bachelor of Science in Computer Engineering

Tehran, Iran K. N. Toosi University of Technology *⊗*

GPA: 18.53/20, Distinction

Thesis Title: Hospital Data Analysis Using Nonlinear Regression and Fuzzy Neural Networks

Supervisor: Mohammad Teshnehlab ⊘

Publications

P. Seshadri, **S. Shashaani**, P. Knees. "Enhancing Sequential Music Recommendation with Negative Feedback-informed Contrastive Learning." In *Proceedings of the 18th ACM Conference on Recommender Systems*, pp. 1028-1032. 2024.

- **S. Shashaan**i, "Explainability in Music Recommender System." In *Proceedings of the 18th ACM Conference on Recommender Systems*, pp. 1395-1401. 2024. *∂*
- **S. Shashaani**, M. Teshnehlab, 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. Jalaeian Zaferani, **S. Shashaani**, F.Kashefinishabouri, M. Teshnehlab, 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.

Ⅲ Teaching Experience

2021 – 2023 **Teaching Assistant**

Neural Networks and Deep Learning, Artificial Intelligence Department, K. N. Toosi University of Technology

Lecturer: Mohammad Teshnehlab *⊘*

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

Research Assistant

Tehran, Iran

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

Team Member of SR2119 Social Robot Developing Project

Tehran, Iran

AlCell Startup *⊘* Main Experience

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

Catalog Link: SR2119 Robot ∅

Reference: Sajjad Amini [s_amini@sharif.edu]

06/2019 - 09/2019

Tehran, Iran As

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.it]

06/2018 - 09/2018

Part-time Developer

Tehran, Iran

Android Application, Arena Group

Main Experience

• Developing Android Program for Students Curriculum Management

Download Link: Sakoo App ∂



Deep Learning Libraries and Frameworks

Pytorch/TensorFlow/Keras

Machine Learning Libraries and Frameworks

scikit-learn / OpenCV / Dlib / mediapipe

Programming Languages and Tools

Python / MATLAB / Weka / C++

Other Libraries and Frameworks

Numpy / Pandas / Matplotlib