

Amir Shirian

Data Scientist @Nokia



Profile

Machine Learning engineer with 3+ years of experience solving real-world problems with machine learning approaches. I also have 6+ years of academia researching and proposing new methods, mentoring undergrad students, and collaborating with big companies.

Contact

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[Portfolio](#)

[GitHub](#)

[LinkedIn](#)

Work Experience

Machine Learning Intern

DeepMirror

2021

Providing graph solutions for data scarcity cases in the biomedical data (images, molecules, RNA/DNA, and antibody)

Machine Learning Intern

Intel AI lab

2020

Designing Learnable Graph Inception Network for Audio Representation Learning

Machine learning Engineer

Aramed Co.

2018

Designing and implementing 3D foot Scanner to make foot orthosis for people with foot deficiencies

Head Member of R&D Group

Soha Co.

2016-2017

Designing and implementing home automation systems based on IOT
Designing and implementing Smart Passport Reader based on OCR

Education

PhD in Computer Science

University of Warwick

2019-2022

Warwick Computer Science PhD students scholarship

M.Sc. in Electrical Engineering

University of Tehran

2015-2018

Ranked in top 10% exceptional students

Academic Achievements

- Smart Grant 2022 Approved by UKRI
- ICME Reviewer in 2020-2022
- Elected Reviewer at First [Graph ML Conference](#)
- Part of the Doctoral Consortium at ICMI 2022
- Reviewer of Science Publishing Group, ML

Selected Publications

Shirian, Amir, Somandepalli, K., Sanchez, V., Guha, T. "[Visually-aware Acoustic Event Detection using Heterogeneous Graphs](#)" Interspeech (2022).

Ahmadian, M., Rahmani, S., **Shirian, Amir**. "Future Image Prediction of Plantar Pressure During Gait Using Spatio-temporal Transformer" IEEE EMBC (2022).

Shirian, Amir, Somandepalli, K., and Guha, T. "[Self-Supervised Graphs for Audio Representation Learning with Limited Labeled Data](#)." IEEE Journal of Selected Topics in Signal Processing (2022).

Ahmadian, M, TH. Beheshti, M., Kalhor, A., **Shirian, Amir**. "[Unsupervised Generative Adversarial Network for Plantar Pressure Image-to-Image Translation](#)." IEEE EMBC (2021).

Shirian, Amir, Subarna T., and Guha, T. "[Dynamic Emotion Modeling with Learnable Graphs and Graph Inception Network](#)." IEEE Transactions on Multimedia (2021).

Shirian, Amir, and Guha, T. "[Compact Graph Architecture for Speech Emotion Recognition](#)." ICASSP (2021).