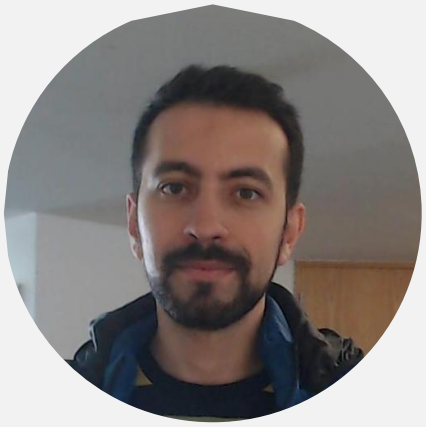
Amir Shirian

Machine Learning Scientist



Profile

Machine Learning engineer with 3+ years of experience solving real-world problems with machine learning approaches. I also have 6+ years of researching and proposing new methods to achieve better performance in all my projects.

Contact

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Portfolio
GitHub
LinkedIn

Work Experience

- **Data Scientist**
  Nokia 2023
  Finding places to apply graphs and responsible for CV projects
- **Machine Learning Engineer**
  DeepMirror 2022
  Providing graph solutions for data scarcity cases in the biomedical data (images, molecules, RNA/DNA, and antibody)
- **Research Collaborator**
  Google AI 2021
  Designing graph self-supervised task and extend graph model on heterogeneous data
- **Machine Learning Intern**
  Intel AI lab 2020
  Designing Learnable Graph Inception Network for Emotion Recognition on different modalities

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

- Publish the Hands-On Graph Neural Networks Using Python Book
- Smart Grant 2022 approved by UKRI
- Interspeech, WACV, ICASSP, ICME, and couple of more journal reviewer
- Elected Reviewer at First Graph ML Conference
- Reviewer of Science Publishing Group, ML

Selected Publications

Shirian, Amir, Ahmadian, M., Somandepalli, K., and Guha, "Heterogeneous Graph Learning for Acoustic Event Classification." ICASSP (2023).

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

Shirian, Amir, Subarna T., and Guha, T. "Dynamic Emotion Modeling with Learnable Graphs and Graph Inception Network." IEEE Transaction on Multimedia.

Shirian, Amir, and Guha, T. "Compact Graph Architecture for Speech Emotion Recognition." ICASSP 2021.