# Mohammad Saeed Ebrahimi Saadabadi

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Fourth-year Ph.D. student; interested in machine learning, deep learning, applied statistics, and their applications in computer vision. For more information, please refer to www.msed-ebrahimi.com

## Education

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| Present<br>May 2025 | **Machine Learning Intern at Pinterest**,<br>Focused on representation learning, Recommender System, and Cold-start Problem. | *Remote, USA* |
| Present<br>Aug. 2021 | **West Virginia University**, Ph.D. in Electrical Engineering<br>Focused on representation learning and metric learning. | *Morgantown, USA* |
| Sep. 2020<br>Sep. 2017 | **K. N. Toosi University of Technology**, M.Sc. in Biomedical Engineering | *Tehran, Iran* |
| Sep. 2017<br>Sep. 2012 | **K. N. Toosi University of Technology**, B.Sc. in Electrical Engineering | *Tehran, Iran* |

## Research Interests

- Un/semi/weakly-supervised Representation Learning
- Generative Recognition
- Direct Preference Optimizaion
- Dataset Distillation

## Selected Papers

* For a complete list of publications please refer to google scholar.

[1] GIF: Generative Inspiration for Face Recognition at Scale
**Saadabadi**, Malakshan, Dabouei, Das, Nasrabadi
*2025 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025.*

[2] Decomposed Distribution Matching in Dataset Condensation,
Malakshan, **Saadabadi**, Dabouei, Nasrabadi
*2025 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025.*

[3] ARoFace: Alignment Robustness to Improve Low-Quality Face Recognition
**Saadabadi**, Malakshan, Dabouei, Nasrabadi
*European Conference on Computer Vision (ECCV), 2024.*

[4] Hyperspherical Classification with Dynamic Label-to-Prototype Assignment
**Saadabadi**, Dabouei, Malakshan, Nasrabadi
*2024 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024.*

[5] A quality aware sample-to-sample comparison for face recognition
**Saadabadi**, Malakshan, Zafari, Mostofa, Nasrabadi
*2023 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2023.*

[6] Joint super-resolution and head pose estimation for extreme low-resolution faces
Malakshan, **Saadabadi**, Mostofa, Soleymani, Nasrabadi
*IEEE Access, 2023.*

## Skills

- Advanced proficiency in Python; basic knowledge in C++ and Matlab.
- Expertise in deep learning frameworks including PyTorch and PyTorch Lightning; experienced with TensorFlow and Keras.
- Skilled in utilizing Python libraries such as NumPy, Pandas, Pillow, Matplotlib, and Scikit-learn for data analysis and model development.
- Comprehensive experience with Convolutional Neural Networks (CNNs), Vision Transformers (ViT), autoregressive image generation, diffusion models, and Distributed Data Parallel (DDP) training.

## Courses

- Application of Neural Networks, Deep Learning, Pattern Recognition, Stochastic Systems Theory, Computer Vision, Soft Computing, Digital Signal Processing, and Linear Algebra.

## Professional activities

- Reviewer of CVPR24, CVPR25, ICLR25, AAAI25, and ICCV25.

## References


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**Mohsen Saffari**
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**Ali Dabouei**
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