Sayeh GHOLIPOUR PICHA

Researcher | Ph.D. Student

eXplainable AI (XAI), Computer Vision, Natural Language Processing (NLP)

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PROFESSIONAL SKILLS

Development Skills Research Skills	
Education	N
2022 - Present	 Ph.D. in Computer Vision, University of Grenoble INP, GIPSA-Lab, France. > Thesis title : How to trust Deep Learning-based system predictions? > Supervisors : Dr. Dawood AL CHANTI, Prof. Alice CAPLIER. (eXplainable AI (XAI)) (Computer Vision) (NLP) (Medical Image Processing)
2021 - 2022	 M.Sc. in Signal and Image Processing, University of Grenoble INP, France. Scholarship Student. GPA: 14.82/20. Thesis title : How far generated data can improve Neural Networks' performance? Supervisors : Prof. Alice CAPLIER, Dr. Dawood AL CHANTI. Deep Learning GANs CNN Tensorflow Pytorch Facial Expression Recognition
2020 - 2021	 M.Sc. in Data Science, Linking Experiment to Theory, University of Grenoble INP, France. GPA: 14.59/20. Thesis title : Guiding Human percept of an ambiguous moving plaid by the Random Dot Kinemato- grams and Bistable moving plaids Supervisors : Dr. Ronald PHLYPO, Prof. Alan CHAUVIN. Cognition Image Processing Psychopy Library (Python)
2012 - 2016	 B.Sc. in Electrical Engineering - Telecommunication, Shiraz University, Iran. > GPA: 16.95/20 > Thesis title : Review project on Steganography in Images and Implementation of the methods. > Supervisors : Alireza Keshavarz Hadad. Cyber Security Matlab Image Processing

PUBLICATIONS

Scholipour Picha, S.; Al Chanti, D. and Caplier, A. (2023). How far Generated Data Can Impact Neural Networks Performance?. In Proceedings of the 18th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 5: VISAPP, ISBN 978-989-758-634-7; ISSN 2184-4321, pages 472-479. DOI: 10.5220/0011629000003417

Professional Experience

January 2018 June 2020	 Research & Development Member, FARABINA SMART COMPANY , Babol, Iran Developing a thermal camera-based device for non-destructive water leak detection. > Developed a module to detect pipes' cracks and fractures inside a wall with a thermal camera in my role as a junior developer. > Thermal camera (Flir) image processing and Python programming on Raspberry Pi 3. > Led to patent registration. Thermal Image Processing Python Raspberry pi3 Junior Developer
March 2017	Data Analyst, 亿 IROAD ELECTRONIC ARIYA COMPANY 🛛 , Tehran, Iran
December 2017	Online traffic counter systems, camera systems, and road data collection systems in urban roads and sub-
	urban areas.
	 Processed and analyzed data received periodically via GSM containing cars' average speed, traffic counter, and license plate recognition, etc.
	> Implemented a SQL module to retrieve and send the processed data to the national road and trans-
	portation organization.
	MySQL GSM Junior Data Processor

September 2014	Part-time job, Аsıѧ-Тесн, Shiraz, Iran
September 2016	Junior Software and Hardware Engineer, testing the new network equipment for Shiraz university esta-
	blishment.

- > Assist in the installation of new network equipment and provide IT support to university dormitories.
- > Support and troubleshoot students' software issues.

Linux Junior Software Engineer

TEACHING EXPERIENCE

2023-2024 Deep Learning Project Course, PRESENTATION ON HOW TO USE THE UNIVERSITY'S SERVER INFRASTRUCTURE FOR GPU TRAINING, 3rd year Engineering Program Phelma Grenoble INP University Python Shell

2022-2023 Data Analysis Course, LAB ASSISTANCE PROFESSOR, 2nd year Engineering Program Phelma Grenoble INP University PSD Matlab

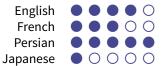
COMPETITIONS

DATA CHALLENGE COMPETITION FOR AUTOMATIC NO-REFERENCE IMAGE SHARPNESS ASSESSMENT IN INFRARED IMAGES

☑ Lynred ☑ Project Description

Lynred is a company specializing in the development of advanced infrared detectors. Master's students participated in this competition to measure their performance in various objective and subjective problem-solving fields. We were accepted by the contest jury and the company itself with our newly developed algorithm.

Infrared Image Processing Python Matlab Team Working



STRENGTHS

- > Problem-solving
- > Analytic Skills
- > Adaptability
- > Perseverance and commitment

CERTIFICATIONS

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November 2023	AutoML Fall School at LMU Munich
July 2023	Bumblekit Machine Learning Summer School in Healthcare and Biosciences at ETH Zürich.
June 2022	Giving a speech at Gdr ISIS Face, gestures, actions, and Behavior seminar at Sorbonne University.
Feb 2022	Facial Expression Recognition with Keras Course 🛛 🖸 Certificate
2021 - 2022	Granted Persyval Full Scholarship for 2nd year of master's study in France.
June 2019	Programming Fundamentals course from Duke university 🛛 🗹 Certificate
Feb 2017	Machine Learning course from Stanford University presented by Andrew Ng.

VOLUNTEERING EXPERIENCE

2023 - Present	Exchange and IT Volunteer 🗹 IAESTE France
2014 - 2015	Chief of IEEE council, Branch of Shiraz University.
2013 - 2014	Financial Manager at IEEE council, Branch of Shiraz University.
2014	Academic Student Association : CST, ADS, and Altium Workshops facilitator.

S References

Dawood AL CHANTI

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Alice CAPLIER

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