Adel Ghazikhani

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Summary

I am a member of the faculty of computer engineering in Imam Reza International University. I am a Data scientist with PhD in computer engineering. Experience in creating several AI products. I have been in the software development industry for 20 years. Started from desktop programming with visual basic, and then web programming with php and now AI programming with python.

Technical skills

Programming Languages: Visual Basic,Visual C++, php, html, css, javascript, python, MATLAB
Databases: Access,SQL Server,Mysql,SQlite
Deep Learning Frameworks: Pytorch,Tensorflow,Keras

Work Experience

1- Faculty of Computer Engineering Department in Imam Reza International University (2009-Present)

2- AI educational content (2020 https://faradars.org/instructors/adel-ghazikhani)

3- Software Development (2003-Present)

Desktop Applications

Tolooeh Rayaneh Company Mashhad Iran - 2003
- **Role** : Software Analyst, Developer
- **Project Title** : Hotel managing software
- **Environment** : Visual Basic and SQL Server

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Work Experience

Web Applications

Astan Quds Youth and Social Research Consulting Institute, Mashhad Iran – 2003-2004
- **Role** : Software Analyst, Developer
- **Project Title** : Deploying Online Learning Platform
- **Environment** : PHP and Mysql

Pars Employment Center, Mashhad Iran - 2005
- **Role** : Software Analyst, Developer
- **Project Title** : Website
- **Environment** : PHP and Mysql

Andisheh Systemi Engineering Company, Mashhad Iran – 2005
- **Role** : Software Analyst, Developer
- **Project Title** : Website
- **Environment** : PHP,HTML,CSS and Mysql

Imam Hossein Hospital, Mashhad Iran – 2005-2011
- **Role** : Software Analyst, Developer
- **Project Title** : Hospital Information System (HIS)
- **Environment** : PHP,HTML,CSS,Javascript and Mysql

AI Applications

National Meteorological Organization, Tehran Iran – 2018-2019
- **Role** : Data scientist, Developer
- **Project Title** : Software for post-processing output of CFSV2 model
- **Environment** : Matlab and Mysql

Samen Ertebat Asr, Mashhad Iran – 2019-2020
- **Role** : Data scientist, Developer
- **Project Title** : Analysis of Bank data
- **Environment** : Matlab and Mysql

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Work Experience

Dadman, Tehran Iran – 2021
- **Role** : Data scientist, Developer
- **Project Title** : Analysis of Bank data
- **Environment** : Matlab and Mysql

Edworkz Pty (Gerford) Sydney Australia – 2020
- **Role** : Developer
- **Project Title** : Tennis AI software, player recognition, ball tracking and ...
- **Environment** : Visual C++, sqlite

Edworkz Pty (Gerford) Sydney Australia – 2020-2021
- **Role** : Team Lead and Developer
- **Project Title** : Table Tennis AI software
- **Environment** : Python, Tensorflow, HTML, CSS, Javascript

Edworkz Pty (Gerford) Sydney Australia – 2022-2023
- **Role** : Team Lead and Developer
- **Project Title** : Swimming AI software
- **Environment** : Python, Pytorch, Flask, HTML, CSS, Javascript

Edworkz Pty (Gerford) Sydney Australia – 2022-2023
- **Role** : Team Lead and Developer
- **Project Title** : Beach Volleyball AI software
- **Environment** : Python, Pytorch, Flask, HTML, CSS, Javascript

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Education

1- Bsc in Computer Engineering, Ferdowsi University of Mashhad - 2004
2- Msc in Computer Engineering (Artificial Intelligence), Azad University of Mashhad – 2008
3- PhD in Computer Engineering (Artificial Intelligence), Ferdowsi University of Mashhad – 2013

Research

Journal Papers:

1- Adel Ghazikhani, Reza Monsefi, Hadi Sadoghi Yazdi, Online neural network model for non-stationary and imbalanced data stream classification. Int. J. Machine Learning & Cybernetics 5(1): 51-62 (2014)

2- Adel Ghazikhani, Reza Monsefi, Hadi Sadoghi Yazdi, Recursive least square perceptron model for non-stationary and imbalanced data stream classification. Evolving Systems 4(2): 119-131 (2013)

3- Adel Ghazikhani, Reza Monsefi, Hadi Sadoghi Yazdi, Ensemble of online neural networks for non-stationary and imbalanced data streams. Neurocomputing 122: 535-544 (2013)

4- Adel Ghazikhani, Reza Monsefi, Hadi Sadoghi Yazdi, Online cost-sensitive neural network classifiers for non-stationary and imbalanced data streams. Neural Computing and Applications 23(5): 1283-1295 (2013)

5- Ghasem Sadeghi Bajestani, Mahboobe Behrooz, Adel Ghazikhani, Mostafa Nouri Baygi, Ali Mollaei, Diagnosis of autism spectrum disorder based on complex network features. Computer Methods and Programs in Biomedicine 177: 277-283 (2019)

6- S Heidari Moghaddam Bajestani, S Shaerbaf Tabrizi, A Ghazikhani . A New Feature Selection Method Based on Fuzzy Updated Particle Swarm Optimization, TABRIZ JOURNAL OF ELECTRICAL ENGINEERING 50 (4), 1557-1567 (2021)

7- A Ghazikhani, I Babaeian, M Gheibi, Mostafa Hajiaghaei-Keshteli, Amir M Fathollahi-Fard , A Smart Post-Processing System for Forecasting the Climate Precipitation Based on Machine Learning Computations, Sustainability 14 (11), 6624 (2022)

8- Mohammad Hossein Amini, Maliheh Arab, Mahdieh Ghiyasi Faramarz, Adel Ghazikhani, Mohammad Gheibi , Presenting a soft sensor for monitoring and controlling well health and pump performance using machine learning, statistical analysis, and Petri net modeling (2021)

9- Ghazikhani, Adel, Iman Babaeian, Mohammad Gheibi, Mostafa Hajiaghaei-Keshteli, and Amir M. Fathollahi-Fard. 2022. "A Smart Post-Processing System for Forecasting the Climate Precipitation Based on Machine Learning Computations" *Sustainability* 14, no. 11: 6624. https://doi.org/10.3390/su14116624

10- Ghazikhani, Adel, Samaneh Davoodipoor, Amir M. Fathollahi-Fard, Mohammad Gheibi, and Reza Moezzi. 2024. "Robust Truck Transit Time Prediction through GPS Data and Regression Algorithms in Mixed Traffic Scenarios" *Mathematics* 12, no. 13: 2004. https://doi.org/10.3390/math12132004

11- Z. Ramezanpoor, A. Ghazikhani, and G. S. Bajestani, "A generalized visibility graph algorithm for analyzing biological time series having rotation in polar plane," Engineering Applications of Artificial Intelligence, vol. 128, p. 107557, 2024/02/01/ 2024

Research

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Conference Papers:

1- Torshizi A.S., Ghazikhani A. (2019) Automatic Twitter Rumor Detection Based on LSTM Classifier. In: Grandinetti L., Mirtaheri S., Shahbazian R. (eds) High-Performance Computing and Big Data Analysis. TopHPC 2019. Communications in Computer and Information Science, vol 891. Springer, Cham. https://doi.org/10.1007/978-3-030-33495-6_22

2- A. Ghazikhani, H. Sadoghi Yazdi, R. Monsefi, "Class Imbalance Handling Using Wrapper-based Random Oversampling" , ICEE 2012 , Tehran, Iran

3- 6- A. Ghazikhani, R. Monsefi, H. Sadoghi Yazdi, "SVBO: Support Vector-Based Oversampling for Handling Class Imbalance in k-NN" , ICEE 2012 , Tehran, Iran

4- Evaluating fuzzy c-means algorithms with spatial constraints for vessel detection in retinal images, In Proceeding IKT 2007 , Mashhad, Iran.

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