Koorosh Komeili Zadeh

Data Science and Artificial Intelligence Student at Leiden University

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Experiences

Data Scientist and Cloud Engineer – Diplora B.V. (Jun 2024 – Present)

Designed and implemented scalable cloud infrastructure on AWS for ECG data processing, enhancing efficiency and optimized Neural Network models on AWS SageMaker to improve arrhythmia detection accuracy. Developed secure APIs and created a dashboard for real-time data visualization. Hands-on experience with AWS services, databases, and machine learning in a real-world healthcare setting.

Teaching Assistant – LIACS, Leiden University (Sep 2024 – Present)

Assisting in "Foundations of Computer Science" under the supervision of Dr. Tobias Kappé and Dr. Zhaochun Ren in the course "Introduction to Programming".

Student Mentor – Leiden University (Sep 2024 – Present)

Providing educational and academic support for Data Science and Artificial Intelligence students.

Course Instructor – Amirkabir University of Technology (Oct 2022 – Sep 2023)

"Introduction to Python Programming" course Instructor at The Robotic and Artificial Intelligence Committee of the Amirkabir University of Technology scientific association.

Teaching Assistant – Iran University of Science and Technology (Aug 2022 – Jul 2023)

Teaching Assistant in Iran University of Science and Technology Robotics Committee's "Introduction to Robotics" course.

Scientific Team Member – CS50xIran (Feb 2023 – Aug 2023)

Providing scientific support for students of the "Introduction to Programming with Python and Artificial Intelligence" course, which was organized by the CS50xIran team as a representative of the Harvard University CS50 team in Iran.

Education

Delft University of Technology – Minor in Quantum Science and Quantum Information (Sep 2024 – Present)

Leiden University – BSc in Data Science and Artificial Intelligence (Sep 2023 – Present)

Amirkabir University of Technology – BSc in Computer Science (1st-Year of Bachelor)

Salam High School – Diploma in Mathematics and Physics (2019 – 2022)

Projects

Exploring Academic Performance in General Mathematics 1

A Case Study of Students grade analysis at AmirKabir University of Technology. View on GitHub

AcciBot - Vehicle Accident Detection Bot

Implemented an Arduino board with accident detection sensors system using Machine Learning.

Skills

Team Work

Leadership

Negotiation

Responsibility

Public Speaking

Problem Solving

Creative Thinking

Communication and Networking

Programming Languages

Python: ★★★★★

C++: ★★★☆☆

C: ★★☆☆☆

HTML/CSS/JS: ★★★★☆

Libraries & Frameworks

NumPy, SciPy, Pandas

Matplotlib, Seaborn

TensorFlow, Scikit-learn

Django, BeautifulSoup4

Languages

Persian: ★★★★★

English: ★★★★☆

Arabic: ★★☆☆☆

Dutch: ★☆☆☆☆

Licenses & Certifications

Supervised Machine Learning – Stanford Online (Aug 2023)

Neural Networks and Deep Learning – DeepLearning.AI (May 2023)

CS50x Introduction to Computer Science – Harvard University (Dec 2022)

Advanced Python Programming – Maktabkhooneh (Sept 2022)

Hobby

Podcast, Tennis, Chess, Board Games, Photography

Activities

Factfulness Podcast – Review of the Factfulness book by Hans Rosling (Farsi)

YouTube Channel – Financial Markets and Trading Strategy guides

Licenses & Certifications

- Machine Learning Specialization – Stanford Online, Aug 2023
- Neural Networks and Deep Learning – DeepLearning.AI, May 2023
- CS50's Introduction to Computer Science – Harvard University, Dec 2022
- Advanced Python Programming – Maktabkhooneh, Sep 2022
- Programming in C – Sharif University of Technology, Sep 2022
- Agile Project Management with Scrum – Amirkabir University of Technology, Sep 2022
- Machine Learning with Python – IBM