

# Sara Kia

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## Personal Details

**Date / Place of Birth:** 05 June 1973, Gorgan, Iran

**Marital Status:** Divorced, 2 adult children

**Nationality:** Iranian

## Professional Experience

### 07/2023 – 10/2025– Data Engineering, Tadbir Gostaran Behine saz

- Built scalable ETL/ELT pipelines for EEG, retail, and SpaceX datasets (Python, SQL).
- Automated data-cleaning workflows and feature engineering processes.
- Designed and implemented batch data-processing pipelines with Pandas and NumPy.
- Developed cloud-ready data pipelines for AWS S3 / Azure Blob Storage.
- Created database schemas and optimized SQL queries for analytical workloads.
- Automated ingestion of structured/unstructured data (CSV, JSON, API).
- Implemented data validation, anomaly detection, and pipeline monitoring tools.
- Delivered production-ready datasets for ML classification workflows.

### 09/2021 – 06/2023 – Data Scientist, Research Group (online)

- Developed and trained machine learning models for the analysis of EEG signals (brain waves) for early detection of autism, achieving a classification accuracy of 85%.
- Conducted research on automated diagnosis of ADHD (Attention-Deficit/Hyperactivity Disorder) based on neural activity patterns, achieving an accuracy of 89%.
- Performed data analysis on real SpaceX Falcon-9 launch data to predict mission success, achieving a prediction accuracy of approximately 85% (IBM / Coursera – Applied Data Science Capstone, 2023).
- Completed a data-mining project for a large supermarket chain: identified patterns in sales and customer data to optimize inventory management and marketing strategies (accuracy approximately 87%).

### 09/2018 – 09/2020 – Software Developer

Maktab Software Company, Tehran, Iran

- Developed several Android applications using Java and Android Studio, including utility tools (e.g. calculator) and simple games.

**12/2013 – 09/2020 – Robotics Instructor**

Ministry of Education / "Pajhoheshsara", Golestan and Tehran, Iran

- Planned, delivered, and evaluated robotics courses for school students.
- Used educational robots (e.g. line-followers, sensors, microcontrollers) to teach fundamentals of automation and programming.
- Prepared and coached student teams for nationwide robotics competitions, including collaborations with Sharif University of Technology in Tehran.
- Organized and led two large robotics competitions in the provinces of Golestan and Tehran.

**09/2011 – 09/2013 – Member of a Research Group**

Amirkabir University of Technology, Faculty of Computer Engineering, Tehran, Iran

- Implemented a MATLAB-based SLAM algorithm, using evolutionary optimization on LIDAR data.
- Performed line extraction and visualization of mapping results.

**09/1998 – 09/2020 – Physics Teacher and Laboratory Instructor**

Ministry of Education / Schools, Tehran–Gorgan, Iran

- Planned and conducted physics lessons as well as practical laboratory exercises.
- Supervised and guided students in physics experiments and project work.
- Prepared and coached student teams for physics olympiads and laboratory competitions at school and provincial level.
- Promoted scientific thinking and experimental work among learners.
- Performed physics experiments together with students in the school laboratory.

**09/1996 – 09/2010 – Physics Laboratory Specialist**

Golestan University, Gorgan, Iran

- Conducted and supervised physics experiments in Physics Laboratory I for students in natural and agricultural sciences.
- Instructed students in experiment setup, data evaluation, and error analysis.
- Assessed laboratory reports and assigned final grades at the end of the semester.
- Ensured safety and quality standards in the laboratory.

## Academic Education

**01/2010 – 11/2013 – Master's Degree in Artificial Intelligence**

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

Degree: Master of Science in Computer Engineering (Artificial Intelligence)

## **09/1992 – 09/1996 – Bachelor's Degree in Applied Physics**

University of Tehran, Faculty of Science, Tehran, Iran

Degree: Bachelor of Science in Applied Physics

## **Further Education & Training**

- 04/2024 – 12/2025 – German Language Course, Level B2 – beramí berufliche Integration e.V., Frankfurt am Main, Germany
- 08/2025 – 08/2025 – Piscine (C Programming) – 42 Heilbronn Coding Academy, Heilbronn, Germany
- 07/2025 – 07/2025 – Women's Piscine (AI) – 42 Berlin Coding Academy, Berlin, Germany
- 09/2022 – 09/2023 – Applied Data Science Capstone Certificate – Coursera (online)
- 09/2021 – 12/2021 – Data Science Course with IBM Expert Mona Hatami (online)
- 06/2019 – 12/2019 – Advanced Programming with Java in Android Studio – Maktab, Tehran, Iran
- 07/2017 – 08/2017 – Advanced PLC Programming – Festo, Tehran, Iran
- 07/2016 – 08/2016 – PLC Programming – Festo, Tehran, Iran
- 07/2015 – 09/2015 – Java Programming – Faradars, Tehran, Iran
- 07/2012 – 09/2012 – MATLAB Programming – Faradars, Tehran, Iran
- 07/2011 – 08/2011 – Image Processing – Faradars, Tehran, Iran

## **IT Skills**

**Office & Communication:** MS Office Suite, Google Workspace

**Programming:** C, C++, Java, Python, MATLAB, SQL, PLC programming

**Data Analysis & AI:** Python (Pandas, NumPy, Scikit-learn), machine learning, Jupyter Notebook; Data visualization with Matplotlib, Seaborn, Tableau

**Automation & Technology:** Siemens TIA Portal, PLC programming (Festo), Arduino

**Tools & Software:** Git / GitHub, Visual Studio / VS Code, Power BI, advanced Excel

**Operating Systems:** Windows, Linux

## **Languages**

**German:** good to very good knowledge (approx. level B1+)

**English:** very good knowledge (approx. level B2)

**Persian (Farsi):** native language

**Other**

**Driving Licence:** Class B

**Current place of residence:** Frankfurt am Main, Germany

Frankfurt am Main, 16 November 2025

Sara Kia