

Hakhamanesh Sardari Mehrabadi

Tehran, Iran | +98 901 232 9740 | hakhasardari@gmail.com | [Linkedin](#) | [GitHub](#)

SUMMARY

I'm an enthusiastic Data geek with a strong foundation in **Statistics**, **Mathematics** and **programming** with **Python** and **R**. Experienced in **time series forecasting**, **financial modeling**, and **statistical analysis**, with a passion for applying data-driven solutions to financial markets and risk management.

EDUCATION

University of Shiraz, Shiraz, Iran

Sep 2019 - Sep 2024

Bachelor of Science in Statistics | Advisor: Dr. Ghalamfarsa

- **Bronze Medalist**
National Statistics Society Competition, (Practical Section)
- **Head of Statistics Scientific Association of Shiraz University**
 - Led a team of 10 members.
 - Organized 10 Statistics and Data Analysis Workshops for +250 attendants.
 - Organized and hosted the “Webinars Series of Statistics in the Industry”: Engaged over 500 attendees, including statistics students and those interested in Data Science and Data Analysis, highlighting the significance of Statistics and providing insights into potential career paths.
- **GPA** (last 60 units): 3.45/4

Shahid Soltani 3 (NODET) High School, Karaj, Iran

Sep 2014 - June 2018

NODET: School for exceptionally talented students

Diploma in Mathematics and Physics

PROJECTS

Time Series Analysis on Tehran Stock Main Index

June 2023 - July 2024

- Conducted **time series analysis** on Tehran Stock Main Index data using **R programming**.
- Constructed **AR, MA, and ARIMA** forecasting models for financial analysis of data using R programming; improved predictive accuracy by 20%.

Car insurance fraud detection

Aug 2024 - Sep 2024

- Implemented **XGBoost** algorithm for classification tasks and the model achieved an **accuracy of 98.6%**.
- Conducted **SMOTE algorithm** in the preprocessing part to balance the label column.
- Utilized **Xgboost, Dplyr, and Smotefamily** for model development.

Glass-Type Classification

June 2024 - July 2024

- Implemented **SVD, GDB, DT, RF, and MNN** algorithms for classification tasks using **Python**.
- Utilized **Scikit-learn, TensorFlow, NumPy, and Pandas** for model development.
- Conducted extensive testing and validation to ensure accuracy and reliability.

Clustering Online-Shoppers

June 2024 - July 2024

- Performed **K-Means** clustering to segment online shoppers using **Python**.
- Employed **Scikit-learn, NumPy, Pandas, Seaborn, and Yellowbrick** for analysis and visualization.
- Identified key **customer segments** to inform marketing strategies.

Web Scraping and Statistical Analysis

Mar 2023 - Mar 2023

- Scraped historical dollar prices from the TGJU website using **Selenium**.
- Applied statistical analysis on the collected data using **NumPy, Pandas, SciPy**, and statistical methods.

SKILLS

Technical

- Machine Learning, Data Mining, Statistical Analysis, Time Series, Multivariate Analysis, Python (Numpy, Pandas, Matplotlib, Scikit-learn, Tensorflow, Seaborn, Selenium), R Programming (Tidyverse, Dplyr, Ggplot, Tseries), SQL, Excel, PowerBI, Rapidminer, Minitab, SPSS

Languages

- Persian (native), English(proficiency)

EXPERIENCE

Freelance Data Scientist & Analyst, Remote

Sep 2021- Present

- Conducted end-to-end data mining projects utilizing Python, R, and RapidMiner tools, delivering actionable insights to support decision-making.

- Performed statistical analyses using software such as R, Python, SPSS, Minitab, and SmartPLS, ensuring the accuracy of data interpretation and hypothesis testing.
- Collaborated with clients across various industries, showcasing adaptability and a commitment to delivering tailored analytical solutions.

CERTIFICATES

- **IELTS** | Issued by **IDP**
 - Overall score: **7.5**
- **Time Series and Survival Analysis** | Issued by **IBM**
 - Gained expertise in **time series modeling with Python**, including decomposition techniques (**trend, seasonality, residuals**) and advanced models like the **ARIMA** method.
 - Acquired proficiency in selecting and implementing appropriate **time series** models to address real-world forecasting challenges and analyze complex temporal data.
- **Python for Finance** | Issued by **365 Data Science**
 - Calculate and compare the **rates of return** (and the associated risk) of various securities in Python.
 - Measure portfolio investment risk by calculating a **portfolio's risk**, its correlation with other assets, and distinguishing between **idiosyncratic and market risk**.
 - Apply **Markowitz Optimization** in **Python** to construct optimal investment portfolios.
- **OpenAI's Data Analytics Bootcamp** | Issued by the **University of Tehran**
 - Worked with **real data**.
 - Analyzed and visualized real data with **Numpy, Pandas, and Matplotlib**.
- **Supervised Machine Learning: Regression and Classification** | Issued by **DeepLearnin.AI**
- **Excel Essentials for Data Analytics** | Issued by **IBM**
- **Data Analysis with R Programming** | Issued by **Google**
- **MySQL** | Issued by **Sololearn**
- **Python For Data Science** | Issued by **Sololearn**

UNIVERSITY COURSES

- Major courses in which I obtained scores above 15 out of 20

	Fundamentals of Economics	Time Series	Statistical Computation with Computer	Data Mining	Numerical and Simulation Methods
Grade (Scale: 20)	15.50	18.25	17.50	18.50	15.75

	Regression 2	Multivariate Continuous Methods 2	Design of Experiments 1,2	Statistical Quality Control 1	Statistical Quality Control 2
Grade (Scale: 20)	15	19.5	20	19.10	19.80

	Sampling Methods 1& 2	Differential Equations	Nonparametric Statistics
Grade (Scale: 20)	19.75	16.5	17

OTHERS

- **Head of Students Council and Committee Chairperson**
- **Lifeguard / Swimming Coach | University of Shiraz:** Instructed 12-session swimming classes to students and university staff, fostering empowerment and instilling belief in their abilities
- **Varsity Swim Team | University of Shiraz:** 1x Silver Medal, 1x Bronze Medal at University Collegiate Competition
- **Professional Santoor (Iranian musical instrument) Player:** 8 years of experience