

Hossein Zandinejad | Supply Chain Analytics & Machine Learning

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Summary

Statistics graduate and Supply Chain Expert building data, machine learning, and AI solutions for retail supply chain operations. Owns master-data quality for **27,000 SKUs** and product-owns **10+ improvement projects** across **10 departments**; delivered automations that cut multi-hour manual work to minutes and an ML redesign that lifted stocktaking **ROC-AUC by 20%**. Works end-to-end from business problem to deployed solution alongside department heads, Scrum Masters, and IT.

Experience

Ofogh Koorosh Chain Stores

Tehran, Iran

Supply Chain Expert

Sep 2025–Present

Promoted from Supply Chain Planner (Sep–Dec 2025), where I supported Frozen and Meat supply and inventory planning.

- Rebuilt the **stocktaking algorithm** from an experience-based Excel model into a Logistic Regression model with engineered features and optimized scoring weights, improving **ROC-AUC by 20%**.
- Built a Python validation and **anomaly-detection engine** covering **27,000 SKUs** that flags master-data errors and proposes corrections, combining business rules, statistical checks, ML, similarity matching against reference data, and AI-assisted suggestions.
- Delivered **6 automation tools** for the Frozen and Meat Supply teams, cutting 2–5 hour manual tasks to **10–15 minutes** and 1–2 hour recurring reports to **minutes**.
- Own master-data quality across 27,000 SKUs (6,000 active) — item naming, hierarchy, inventory and purchase multiples, packaging, and shelf labels; designed the **Master Data Quality KPI** governing it and publish weekly and monthly **supply chain KPI reporting** for 10 departments.
- Product owner for **10+ cross-functional improvement projects**: scoping requirements and NDAs, running discovery with subject-matter experts, and routing each initiative to in-house build, IT partnership, or full IT handover.
- Redesigned the SKU inventory/purchase multiple workflow so ordering continues correctly until existing warehouse stock depletes; scoped the end-to-end data collection for a centralized **SKU shrinkage and packaging database**.
- Trained **70–80 supply chain staff and department heads** through a Prompt Engineering course and hands-on AI automation demonstrations.

Frankfurt Institute for Advanced Studies (FIAS)

Frankfurt, Germany

Research Intern

Oct 2023–Dec 2023

- Conducted computational research under Prof. Dr. Jochen Triesch, applying statistical and computational methods to research problems within a remote, international team.

Atomic Energy High School

Tehran, Iran

Data Analyst

Jun 2021–Feb 2023

- Analyzed semester examination results across all **12 grades** and built a dashboard of university entrance exam (Konkour) performance trends used by teachers and administrators for planning.
- Contributed to the design and implementation of a secure online final-examination system, improving exam efficiency and integrity.

Iran's National Elites Foundation

Tehran, Iran

Undergraduate Researcher

Jan 2022–Sep 2022

Helped develop data-driven decision-making courses for managers at the Data for Governance Lab, Sharif Innovation Station.

University of Tehran

Tehran, Iran

Teaching Assistant

Sep 2020–Feb 2022

Probability I, Statistical Methods, Linear Algebra, and Calculus II.

Technical Skills

Languages & Tools: Python, SQL, VBA, Advanced Excel, Git, GitHub, Jupyter, VS Code

Data & ML: Pandas, NumPy, Scikit-learn, Exploratory Data Analysis, Statistical Analysis, Logistic Regression, Random Forest, XGBoost, Clustering, Anomaly Detection, Feature Engineering & Selection, KPI Design, Data Quality

AI / NLP: Large Language Models, Prompt Engineering, Generative AI, NLP, AI-assisted Process Automation

Automation & BI: Python & Excel Automation, xlwings, REST APIs, Streamlit, Power BI, Plotly, Matplotlib

Education

University of Tehran

Tehran, Iran

Bachelor of Applied Science (BASc), Statistics

2019–2023

Quera

Remote

Data Science Bootcamp (12 weeks)

2023

Certifications: Essentials of Prompt Engineering, AWS (2026) · Deep Learning Essentials, IBM (2022) · Mathematical Optimization for Business Problems, Cognitive Class (2022) · Business Analysis & Process Management, Coursera (2022)