Alireza Ghorbani

Curriculum Vitae

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Professional Experience

2021 - Now   **Senior Market (Consumer) Research Analyst**, *R&D Department,* 🌀 *Zarrin Roya*, Tehran, Iran.
At Zarrin Roya, I use statistics to turn customer feedback into business insights. I fit, test, and validate predictive models, track social media trends, and conduct market research. I design research projects using historical data, communicate solutions, and keep up with emerging trends. I also write new functions and manipulate data using statistical software.

2022 – 2023   **Statistics & Machine learning Instructor**, 📘 *Learnix.ir*, Tehran, Iran.
I taught online courses on statistics, machine learning, and R programming language in Persian at learnix.ir, using interactive videos, quizzes, exercises, and projects to engage and assess learners.

Education

2024-2026 (Expected)   **M.Sc. in Epidemiology**, LMU Ludwig-Maximilian University, Munich, Germany.

2014–2016   **M.Sc. in Mathematical Statistics**, Shahid Beheshti University, Tehran, Iran.
- Thesis: *Analysis of High Dimensional Data Using Rayleigh Quotient Optimization (in Persian) under supervision of Prof. Faridrohani & prof. Hamedani*

2009–2014   **B.Sc. in Statistics**, Shahid Chamran University, Ahwaz, Iran.
- Thesis: *Statistical Study for The Factors Contributing to The Academic Failure among A Group of Undergraduate Students (in Persian) under supervision of Prof. Zadkarami*

2008–2009   **Pre-University Diploma in Mathematics and Physics**, ❄ *Shahid Beheshti Pre-University School*, Birjand, Iran.
Affiliated with the National Organization for Development of Talented Students (NODET)

2006–2008   **High School Diploma in Mathematics and Physics**, ❄ *Shahid Beheshti High School*, Birjand, Iran
Affiliated with the National Organization for Development of Talented Students (NODET)

Publication

2024+   **Enhanced Multi-Criteria Decision Making using Generalized Linear Models and Augmented Feature Space (Case study: Water Pipeline Routing)**, Ready to Submit

2024+   **Optimizing Water Pipeline Route Selection Using a Sparse Deep Neural Network and the Fuzzy VIKOR Method (case study: water pipeline transmission)**, Under Review

2024+   **Longitudinal Supply Chain Monitoring using Generalized estimating equation and Joint Optimization method (A case study in the Personal Care Industry)**, Under Review

Test Scores

Jan 2024   **Scored 135 out of 160 in DET Exam** ⚙
Literacy (135/160), Comprehension (140/160), Conversation (125/160), Production (115/160)

Juli 2020   **Scored 103 out of 120 in TOEFL iBT Exam** (ETS)
Reading (25/30), Listening (29/30), Speaking (25/30), Writing (24/30)

Extracurricular Activities & Professional Certificates

2019 - 2021

- Bayesian Statistics Specialization
  University of California, Santa Cruz
- Machine Learning Specialization
  Stanford University & deeplearning.ai
- Market Research Specialization
  University of California, Davis
- PostgreSQL for Everyone Specialization
  University of Michigan

- Practical Time Series Analysis
  The State University of New York
- Deep Learning Specialization
  deeplearning.ai
- Natural Language Processing Specialization
  deeplearning.ai

Honors and Awards

2014   **Ranked 9th**, *in the 19th National Scientific Olympiad (Statistics)*

2014   **Ranked 19th**, *in the National Entrance Exam for Masters of Science in Actuarial Statistics, Social & Economic Statistics and Theoretical Statistics*

2003 & 2005   Selected for study in schools of the National Organization for Development of Exceptional Talents (NODET) through an exam with less than 1% acceptance rate.

Research Interests

- Machine Learning in Epidemiology
- High Dimensional Statistics

- Genetic Epidemiology
- Clinical Trials

Technical skills

R Programming, Python , Matlab, SQL, LaTeX, Open BUGS

Languages

- English: Fluent
- Spanish: Elementary

- German: Elementary