IMAN MIRJAFARI

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EDUCATION

- Master of Science in Statistics, University of Tehran   Tehran, Iran — 2023 - present

- Interested in Computer Vision, Generative AI (GenAI), Multimodal Learning, Medical Image Analysis, Deep Learning

- Bachelor of Science in Statistics, Isfahan University of Technology   Isfahan, Iran — 2018 - 2023

- Cumulative GPA of last two years: 3.42/4.00
- GPA of selected coursework: 3.86/4.00

- High School Diploma in Physics and Mathematics   Tehran, Iran — 2014 - 2018

- Cumulative GPA: 19.5/20

HONORS

- Ranked **3rd** in class of '23 in Statistics at Isfahan University of Technology, Iran.

- Winning student in the first round of the national Statistics Olympiad in 2022, a prestigious contest among ~500 selected candidates of high-ranked undergraduate and graduate students in various universities. Only **47** students were accepted for a second final round.   **July 2022**

- Ranked **20th** in the finale of the national Statistics Olympiad in 2022. Also invited to the following-year finale of the contest as a honor student.   **October 2022**

- Ranked **17th** in the finale of the national Statistics Olympiad in 2023.   **September 2023**

- Ranked **23th** among ~2000 attendees in the national universities entrance exam of 2023 for graduate studies in Statistics.   **May 2023**

SELECTED COURSEWORK

- Computer Vision* (4/4) (17.5/20)
- Mathematical Analysis & Measure Theory* (4/4) (18.25/20)
- Fundamentals of Mathematics (4/4) (18/20)
- Mathematical Analysis (4/4) (20/20)
- Vector Analysis (4/4) (18.4/20)
- Advanced Probability (3/4) (15/20)
- Advanced Statistics (4/4) (16/20)
- Introduction to Regressions (4/4) (18.25/20)
- Advanced Regressions (4/4) (18.25/20)
- Bioinformatics* (4/4) (18/20)
- NLP* (3/4) (15.63/20)
- Neural Networks (4/4) (17.5/20)
- Data Analysis (4/4) (17.5/20)
- Time Series (3/4) (15.5/20)
- Statistical Computing (4/4) (19.25/20)
- Advanced Sampling Methods (4/4) (19.5/20)
- Statistical Quality Control (4/4) (20/20)
- Reliability Theory (4/4) (16.25/20)

SELECTED GRADUATE COURSEWORK

CERTIFICATIONS

Generative AI with Large Language Models. I completed a non-degree online course authorized by DeepLearning.AI and Amazon Web Services and offered through Coursera. The course covered generative AI use cases, project lifecycle, model pretraining, fine-tuning and evaluating large language models, reinforcement learning, and LLM-based applications. The course was taught by Antje Barth, Chris Fergly, Shelby Eigenbrod, and Mike Chambers.   **Mar 2025**

EXPERIENCE

Computer Vision Intern   Jan 2022 - Apr 2022
Farda Fan Pars (Architectural company)   *Tehran, Iran*

- Implemented RANSAC technique to determine floor plans of multi-story buildings in point-cloud spaces.
- Implemented surface edge-point (perimeters) detection using Alpha-Shape algorithm. Architects used the detected perimeters to create 3D models of buildings in Autodesk.
- Tech stack: Python, Numpy, SciPy, Open3D

Data Analytics Intern   Jun 2019 - Sep 2019
Karafs (Startup in digital healthcare and fitness)   *Tehran, Iran*

- Conducted statistical analysis, i.e., visualizations and correlational analysis on users' demographics data e.g., height, weight, gender, consented medical history for market analysis and advertising purposes.
- Performed associations analysis of food logs vs. in-app shopping for marketing decision making. For example, the analysis indicated that more food logs show higher users engagements that results in more in-app purchases.

COURSEWORK PROJECTS

Analysis of The Labor Force Survey Data. Analyzed Labor Force Survey data using supervised classification algorithms including K-Nearest Neighbors, Decision Tree, and Naive Bayes to classify individuals' employment status (employed, unemployed, inactive) based on subjects' responses e.g., educations, marital status, household income.   **Jan 2023**

Time-Series Analysis and Prediction of Cryptocurrency. Used Normal Q-Q plot and the Ljung-Box statistical test to study residuals independence, Differencing technique and Generalized Dickey-Fuller statistical test to make the Time-Series invariant, and Acf/Pacf plots to tune the ARIMA model parameters. The ARIMA model was able to accurately estimate the values of the next 10 days, with the actual values falling within the 95% confidence interval of their predicted value.   **Jun 2021**

RESEARCH PROJECTS

"ZIA: Dual-ViT Framework for Data Valuation and Image Classification.* " Multimedia Tools and Applications, Revision.   **Sep 2025**

* This approach enhances model robustness by identifying challenging or noisy samples, and improves learning efficiency by leveraging the model's internal training dynamics. In this work, I proposed and utilized the MIMIC-CXR dataset, a ViT-based architecture, and a Gaussian Mixture Model (GMM) for clustering. I also served as the lead developer, implementing the entire pipeline using Python and PyTorch.

TECHNICAL SKILLS

- Skilled in Data Science, Machine Learning, and Neural Nets.
- Proficient in MiniZinc modeling language and programming languages such as Python, R, MATLAB, and C/C++ for data science purposes.
- Proficient in deep learning frameworks such as PyTorch, TensorFlow, and JAX.

REFERENCES

Available upon request.