

# Hamid Jahani

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## Summary

I am a **Gold and Silver Medalist of the Statistics Olympiad**, a rigorous national competition testing mastery of advanced theoretical **statistics** and **practical data science**. This foundational expertise drives my work as a statistician and data scientist. I hold a Master's degree from Tarbiat Modares University, where I graduated as the **top-ranked student in my cohort (GPA: 4.0/4.0)**.

My research, particularly on using **deep learning to diagnose ADHD in children via EEG signals**, has been published in *Cognitive Computation*. I have applied this same analytical rigor to deliver significant impact at leading organizations like Snappfood and Digikala, building machine learning systems that drive revenue and efficiency. My profile is further distinguished by authoring a textbook on statistical inference, a chapter of **Handbook of Neural Engineering** for Elsevier and achieving top ranks in multiple national competitions.

## Education

### TARBIAT MODARES UNIVERSITY

#### *Master of Science in Statistics; Major in Data Science*

Tehran, Iran

2020 – 2022

- **GPA:** First Rank among 10 students (GPA: 4/4)
- **Location:** Tehran, Iran
- **Thesis title:** *Efficient deep learning approach to diagnosis of ADHD in children based on EEG signals*
- **Supervisor:** Dr. Ali Asghar Safaei

### ALLAMEH TABATABA'I UNIVERSITY

#### *Bachelor of Statistics*

Tehran, Iran

2016-2020

- **GPA:** First Rank among 60 students (GPA: 3.93/4)
- **Location:** Tehran, Iran
- **Final project title:** *Study on Corona data using multivariate statistical methods (focusing on mixture models)*

## Research Interest

- (Explainable\Probabilistic) Machine Learning
- Deep Learning (Vision, NLP and Text Mining, Signal)
- Machine learning in Bioinformatics
- Machine Learning Operation (MLOPS)
- Generative AI
- Statistical Learning

## Research publication

## Journal Articles

1. **H. Jahani** and A. A. Safaei, "Efficient deep learning approach for diagnosis of attention-deficit/hyperactivity disorder in children based on eeg signals," *Cognitive Computation*, pp. 1–16, 2024. ([Click Here](#))
2. M. Shafiei Neyestanak, **H. Jahani**, M. Khodarahmi, J. Zahiri, M. S. Yekaninejad, et al., "A quantitative comparison between focal loss and binary cross-entropy loss in brain tumor auto-segmentation using u-net" 2021. ([Click Here](#))

## Book and chapters

1. A. A. **Hamid Jahani**, One Chapter of Handbook of Neural Engineering, Volume 1: Signal Processing Strategies (Neural signals processing using deep learning for diagnosis of cognitive disorders). Elsevier, 2023. ([Click Here](#))
2. **H. Jahani**, "Mathematical Statistics with R". Allameh Tabatabai University Publishing Center, 2020. ([Click Here](#))

## Miscellaneous Experience

### AWARDS AND ACHIEVEMENTS

- First Place in Second and Third Event on Play with Real Data among 60 teams.
- Second place at National Master Entrance Exam.
- Silver Medal of the Statistics Olympiad.
- Gold Medal in Iran Statistics Competition.

Feb 2023/AGNA.co

April 2021 / Iran

August 2020 and July 2019 / Iran

June 2019 / Iran

## Selected Courses

Machine Learning	16.5/20	Modern Database Systems	20/20	Data-Driven Computing	19/20
Systems and Big Data Analysis	20/20	Data Mining	17.25/20	Probability II	19.5/20
Matrix and Linear Algebra	19/20	Statistical Methods	19/20	Stochastic Processes I	20/20
Bayesian Statistics	18/20	Simulation	20/20	Data Structures and Algorithms	19.25/20

## TEACHING EXPERIENCE

### Great Learning

#### India, Bengaluru, Remote

Great Learning is a leading global ed-tech company offering industry-relevant programs in data science, AI, machine learning, and more, empowering professionals to upskill and advance their careers.

#### Mentor and course owner

December 2024-Present

- Mentored learners in **data science**, **generative AI**, and **ML engineering**, guiding them through core concepts and applied projects.
- Courses: Post Graduate Program in **AI Agents** for Business Applications, AI in Healthcare, Data Science and Machine Learning: Making Data-Driven Decisions.
- Students are from all over world : USA, Europe, Asia, Africa and .....

## ALLAMEH TABATABA'I UNIVERSITY

Iran, Tehran

#### Position: Teacher Assistant

2018-2020

- Probability and Probability Distribution-I (Dr. Reza Portahari)
- Probability and Probability Distribution-II (Dr. Reza Portahari)
- Mathematical Statistics (Estimation) (Dr. Vahid Rezaeitabar)
- Mathematical Statistics (Hypothesis Testing) (Dr. Vahid Rezaeitabar)

## WORK EXPERIENCE

### RoomVU

Canada, Vancouver, Remote

Roomvu is the pioneer in Video Marketing for Agents, Backed by the National Association of Realtors. It generates HYPER LOCAL & Relevant Videos for your Social Media, Ads and Email Campaigns. They post 5x / WK on all your socials giving you visibility and positioning you as a market leader.

#### Data Scientist

October 2023-Present

- Developed Named Entity Recognition (NER) services to detect time and location from high-speed data, improving crawling pipeline accuracy by 50% with **Celery**, **GRPC**, **Flask**, **Python**.
- Led a full-scale machine learning project involving voice cloning, voice quality checking, and image enhancement, resulting in the development of 2 new products and a 5% increase in revenue with **Celery**, **gitlab CI**, **Serverless GPU on Runpod** and **AWS SageMaker**.
- Developed a text summarization pipeline for the content team, automating 20% of their manual workload.

### Snappfood

Tehran, Iran

Snappfood is Iran's leading online food delivery service, connecting customers with a wide variety of restaurants and grocery stores through its user-friendly platform. With a focus on efficiency and customer satisfaction, Snappfood leverages advanced technology and data-driven insights to provide a seamless and reliable delivery experience.

## MLOps/Machine learning Engineer

July 2022 - Nov 2023

- Enhanced deployment speed by 30% by leading the development of automated ML training pipelines, utilizing **GitLab CI**, **Docker Swarm**, **Traefik**, and **MLflow**.
- Collaborated with cross-functional teams to implement MLOps procedures, optimizing workflow efficiency by 30%.

## Data Analyst & Big Data Scientist

Dec 2021 - March 2023

- Played a key role as the fourth hire on Snappfood's Data Science team, driving the growth from 4 to 15 members by developing over 10 machine learning pipelines and dashboards and mentoring new data analysts.

- Improved operational efficiency by 60% through enhancing user session creation on Hadoop with PySpark, and crafting a user action warehouse in SQL Server, enabling effective A/B testing and dashboard creation for 4 teams.
  - Delivered over 60 A/B tests using Bayesian and traditional statistical methods, resulting in a 5% revenue increase, and designed ML models for churn prediction, vendor recommendations, and auto-completion, leading to \$5000 in monthly savings and a 30% drop-off rate reduction.
  - Boosted team productivity by deploying ML models with Streamlit, MLlib, scikit-learn, MLflow, and Evidently, which also contributed to doubling the average app engagement time and retaining 10% of churned customers.
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## Digikala

Tehran, Iran

Digikala is the largest e-commerce platform in Iran and one of the leading online marketplaces in the Middle East. Known for its vast selection of products and exceptional customer service, Digikala leverages advanced technology and data-driven insights to provide a seamless shopping experience for millions of users.

### Business Data Analyst

April 2021 - Dec 2021

- Streamlined vendor segmentation processes, saving 20% of weekly employee efforts through the development of an interactive dashboard.
  - Created 10 dashboards for the Sales team with **Power BI**.
  - Engineered a precise ML model for churn prediction, retaining 10,000+ customers and about \$8000 revenue savings per month using **scikit-learn**.
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## SAGE AI

Tehran, Iran

### Data Analyst (Co-founder)

Oct 2019 - Feb 2020

- Our team focused on demand forecasting using: Time series, Frequent pattern mining, and machine learning.
- Developed a highly effective bundling system at Fidibo company, resulting in a revenue increase of over \$4000 per month.

## Skills

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- **Programming & Scripting:** Python, R, Pyspark, T-SQL.
- **Machine Learning & AI:** Machine Learning, Deep Learning (PyTorch, TensorFlow), Statistics, Probability, Exploratory Data Analysis, Generative AI, LLMs, RAG (Retrieval-Augmented Generation).
- **Deployment & Production Engineering:** Git, GitLab CI, Docker (Swarm), Amazon SageMaker (AWS), API Development (Flask, FastAPI, gRPC), Celery.
- **Data Engineering Ecosystem:** Linux (LFCS), Airflow, MySQL, SQL Server, Hive, HBase, Trino, Traefik, Qdrant, Power BI.

## Languages

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English (Fluent), Persian (Native)

## References

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- **Dr. Ali Asghar Safaei, Associate Professor**

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