

# KIANA LIAGHAT

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## EDUCATION

### K. N. Toosi University of Technology

Sep 2018 - Feb 2023

Bachelor of Electrical Engineering - GPA: 3.5/4

Tehran, Iran

- Coursework: Data Structures, Artificial Intelligence, Algorithms, Engineering Statistics, Data Science, Machine Learning

## TECHNICAL SKILLS

**Programming Language:** Python, SQL, Scala, Go, C/C++, Bash, VHDL, MATLAB, LaTeX

**Frameworks & Libraries:** Ollama, LangGraph, Spark, Kafka, Apache Airflow, Apache Hive, HDFS, Scikitlearn, TensorFlow, Keras, Matplotlib, Pyspark, Pandas

**Database:** SQL, Elasticsearch, Redis, MongoDB, MSSQL, Clickhouse, PostgreSQL

**Developer Tools:** MacOS, Linux, Github, Docker, Zeplin, Superset, GitLab, VS Code, Jira

## EXPERIENCE

### Lead Data Scientist

Jan 2025 – Present

Jabama; Persian Accommodation Renting Platform

Tehran, Iran

- Developed a novel Rayleigh-based Multi-Objective Optimization algorithm for business-aware re-ranking, improving **order conversion rate by 7.5%** and enabling re-ranking across multiple strategic business objectives
- Refactored critical foundational midtables, enhancing robustness and accelerating dashboard **refresh rates by 60%** to support reliable company-wide analytics
- Designed and deployed A/B testing frameworks and defined measurable KPIs for the data science team, delivering a **15% uplift** in AI-driven product performance through iterative testing and optimization
- Developed end-to-end AI solutions using Scala and Apache Spark, building scalable pipelines that processed **3TB+ daily data with 99.9% uptime**

### Senior Data Scientist

Aug 2021 – Aug 2023

Taaghche; Persian E-Book and Audio Book Selling Platform

Tehran, Iran

- Developed an end-to-end collaborative filtering book recommendation system, containerized with Docker and exposed via a Swagger-documented REST API, that increased sales performance and became **the 5th highest-value sales channel platform-wide**, driving **+500M Tomans** in daily revenue
- Developed a personalized discount code generator leveraging user behavior and business preference features, reducing discount-related **costs by 10%**, increasing discount-driven **purchases by 22%**, and boosting overall **revenue by 17%**

### Junior Data Scientist

Jun 2019 – May 2021

KeyLead Health

Australia(Remote)

- Developed convolutional neural networks (CNNs) on EEG signals to classify three distinct grasp motions, incorporating bandpass filtering, signal normalization, and time-frequency feature extraction, and achieving **80% accuracy** on 3 subjects with an average accuracy of **57% across the full cohort**
- Optimized network architectures and training parameters (learning rate scheduling, dropout regularization, and cross-subject validation) to improve model generalization and robustness

## PROJECTS

### Query Craft

[Link](#)

- a Django-based, LLM-powered web app that converts natural language queries into SQL, with an intuitive interface and Dockerized deployment.

### Bookworm

[Link](#)

- a microservice-based recommender system with FastAPI backend, Dockerized architecture, UML/network/container diagrams, and comprehensive unit tests and load-tested performance reports

## LEADERSHIP

### Jabama

Jan 2025 – Present

Lead Data Scientist

Tehran, Iran

- Recruited, trained, and led a high-performing data science team, fostering collaboration, mentorship, and innovation to enhance operational efficiency and accelerate strategic initiatives

## LANGUAGE

**Persian:** Native

**English:** Professional proficiency ( Academic IELTS Overall: 7.5 / R: 8.5 / L: 7.5 / S: 7 / W: 6.5)