

# Amin Zayeromali

## Data Scientist / Software Developer Engineer

Drove at using data to drive business growth and success. Achievements include streamlining ETL processes speed by 50%, optimizing web services, and increasing response number to clients by 30%, resulting in a 20% increase in company performance, and a high-performing technical and research team leader.

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[Linkedin](#) | [GitHub](#)

## EXPERIENCE

### Factly Health, Montreal, Canada — Data Scientist

January 2022 - PRESENT

- **Accelerated microservice-based** architecture using DRF for **B2B** services to **improve the response speed** of endpoints, resulting in a **reduction of response** late to clients by **40%**.
- **Strengthened** an ETL process using Django with **multithreaded** and parallel collection capability, leading to a significant **increase** in data collection **speed** by **70%**.
- **Initiated** Amazon Web Services with **DevOps** operation, resulting in a server based on Centos and Linux with **high scale** and **high availability**, achieving **99.9% uptime**.
- Establish and implement a **machine learning** pipeline for semantic relation operation with an **ElasticSearch** index engine, resulting in a **70% improvement** in search **accuracy**.
- Integrated **Chat-GPT** API to implement special features (RAG), resulting in a **40% reduction** in **response** time and bringing many **achievements**.
- **Transformed** front-end UI using jQuery and JavaScript, improving the **user experience** and increasing engagement by **30%**.
- **Optimized** the **implementation** of the **microservice** design pattern for faster implementation and **reduced** the **response** time to clients by **25%**.

### Hamisheonline Scientific Foundation — Data Scientist / Sr. Software Development Engineer

January 2011 - December 2021

- **Conducted ground-breaking** research and expertly coded **Semantic** and **ElasticSearch (NLP)** in **Python**, resulting in an impressive **50% improvement** in search relevance.
- **Accomplished** a cutting-edge **Stock Price Forecasting** Method in Iranian **Financial Markets** using the LSTM Method on Keras Lib, generating **high-profit** trades, resulting in a **25% increase** in revenue.
- **Completed** giving accurate **performance reports** in forecasting online sales based on entropy metrics with Python, leading to a significant **40% increase** in **sales** which helped the **company grow**.
- **Created** a revolutionary **system traffic recommendation** with Google **traffic entrance** for PHP News Reader (Related to **NLP**) on PHP-MySQL, **increasing** user views, and financial profit with a remarkable **40% increase**.

## SKILLS

### Programming Languages

- Python, R (familiar), MATLAB (prior experience)
- SQL, JAVA (prior experience), JavaScript, PHP

### Tools

- Django, Django Rest Framework
- Redis, PostgreSQL
- Git, Fast API,
- Rest API, Flask
- Docker Compose
- Nginx, Kafka, Tableau
- Agile, Scrum
- Kanban, Scrumban
- Jira, Trello
- HTML, CSS, JavaScript (jQuery)
- Elasticsearch, CI/CD

### Methodologies

- Microservice
- Domain-Driven
- Data-Driven

## LANGUAGES

- English (professional proficiency)
- Turkish (intermediate)

- **Developed and implemented** a machine learning model for fraud detection utilizing Decision Trees; successfully identified and prevented fraudulent transactions, **saving the company \$50k in losses**.
- **Conducted** CRNN hyper-parameter research using heuristic algorithms and image processing in Python; boosted model **accuracy** by **12%** and **reduced training time** by **15%**
- **Improved** system **performance** by **25%** through **optimization** of **micro-service** design pattern implementation, resulting in faster response times and an improved user experience.
- **Achieved large-scale** systems with **microservice** patterns, enabling the system to be flexible and scalable for efficient handling of large amounts of **data and high traffic**.
- **Built efficient** and reliable **data-based** software by working with **SQL** databases, capable of handling **large volumes of data** with ease.

## **MariFitClub & FarzanTanasob** — Data Scientist / Sr. Software Development Engineer

April 2022 - PRESENT

- **Conducted ground-breaking** AI-based research on diabetes, resulting in the development of innovative tools used by **5 different organizations** and a **25% reduction** in patient re-hospitalization.
- **Reached** state-of-the-art software systems related to **healthcare**, leveraging AI tools that resulted in exceptional **improvements** in research outcomes and **decreased 30%** in time wasting.
- **Contributed** to **publishing impactful research articles** highlighting the benefits of physical activity in disease management with **AI** technology, while **increasing** research data **analysis speed** by an impressive **50%**.
- **Led** the **technical development** team in driving healthcare innovation through AI which led to a remarkable **30% improvement** in production efficiency.

### Other Experiences:

- **Spearheaded** transformative **data initiatives**, utilizing **6 years** as a **proficient data scientist** and **16 years** as a **seasoned software engineer**; crafted impactful solutions, accelerated business growth, and championed continuous improvement. (More details in [LinkedIn profile](#))

## EDUCATION

- **Mazandaran University of Science and Technology**, *MS, Computer Software Engineering*
- **Sadjad University**, *BS, Computer Software Engineering*

## PROJECT

- **Factually Health Fact Checker AI Tools** [Link](#)
- **Stock Price LSTM Prediction** [Link](#)