

# Mohammad Malekpouri

AI & Genetics Researcher  
| Software Developer

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## Mohammad Malekpouri

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## About

### AI & Big Data Specialist

I'm a seasoned professional with a decade of experience in software engineering, now fully focused on the dynamic fields of Artificial Intelligence, Machine Learning, and Big Data. My expertise goes beyond research; I have a proven track record of developing innovative and efficient systems to solve complex challenges.

#### Key AI & Data Projects

I developed an advanced deep learning-based Persian text sentiment analysis system. This system, which employs a novel hybrid architecture, combines word- and character-level processing to address the unique challenges of the Persian language, achieving remarkable results. This project highlights my deep expertise in Natural Language Processing (NLP) and neural network architecture design.

In another key project, I engineered a new approach to improve ETL (Extract, Transform, Load) processes in Big Data environments. By using machine learning techniques like clustering and anomaly detection, this method significantly enhances process efficiency and data quality. This experience underscores my critical role in optimizing data pipelines and preparing data for machine learning models.

### Skills & Professional Background

My extensive background as a software engineer provides a strong foundation for my work in AI. Over the past decade, I've honed my skills in Java application development and am an expert in frameworks like Spring. I have broad experience in creating software systems for critical industries such as oil and health & safety.

My proficiency in version control systems like Git and my experience building custom Linux distributions are directly aligned with MLOps principles, enabling me to effectively manage and deploy complex AI projects. I hold a Task-Oriented AI Bootcamp certification and have experience as an instructor, teaching technical courses like the LPIC Linux certification. Committed to lifelong learning, I continuously seek opportunities to create solutions that combine efficiency, simplicity, and innovation.

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## Experience

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### AI & Full Stack Developer

Feb 2014 - PRESENT

At IOOC.co, I leverage my comprehensive background as a full stack developer to lead and execute projects at the intersection of traditional software engineering and advanced AI systems. My work focuses on creating scalable, data-driven solutions that address complex challenges in various industries.

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### Key Expertise & Achievements

- **Pioneering AI & Big Data Solutions:** I designed and implemented a new method for improving **ETL processes in Big Data environments**, significantly enhancing efficiency and accuracy using machine learning techniques. I also developed an advanced deep learning-based system for **Persian text sentiment analysis**, achieving remarkable results in **Natural Language Processing (NLP)**.
  - **Full Stack Development:** My core skills include advanced expertise in Java application development, particularly with the **Spring Framework**. I have a strong track record of designing and implementing scalable distributed systems and **RESTful APIs**, including a distributed maintenance work order system and a personnel ticketing system.
  - **System Integration & Architecture:** I have extensive experience building robust data integration systems, collecting and analyzing data from diverse sources to support data-driven decision-making. My work includes engineering a **REST-based reporting service** that streamlines data collection and analysis.
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### Technical Skills

My technical proficiency spans a wide range of technologies, including:

- **Programming:** Java (Spring, RESTful APIs), Python
  - **Data & AI:** Big Data processing, ETL/ELT workflows, Machine Learning, Deep Learning, NLP (Sentiment Analysis)
  - **System & DevOps:** Distributed Systems, Linux (including custom distributions like Linux From Scratch)
  - **Research & Publication:** Research methodologies, publishing technical studies in AI and Machine Learning.
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### Telecommunication Company / Software developer

Apr 2010 - Nov 2013, Bandar Abbas

#### Key Skill

- Java Developer
- Web(HTML,CSS,Javascript,ReactJS) Developer

## Achievements

- Software development for call traffic analysis
- Development of web-based software to communicate the affairs of subscribers feeding)

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## Education

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### Islamic Azad University / Master

Oct 2024 - Jul 2025, BandarAbbas,Iran

- Software Engineering

### Amirkabir University of Technology / Master

Oct 2014 - Jul 2016, Tehran,Iran

- Computer Network Engineering

### Islamic Azad University / BSc

Oct 2010 - Jul 2013, BandarAbbas,Iran

- Software Engineering

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## Certifications

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### Quera College

Aug 2025 , Tehran,Iran

- TASK-ORIENTED BOOTCAMP IN Artificial Intelligence

Verification

- Link : <https://quera.org/certificate/YeeWudST/>

### Information Technology Laboratory (Laitec)

Feb 2019 , Tehran,Iran

- Java 2SE (Desktop Programming)

Verification

- Link : <https://laitec.ir/certification-verification>
- SUT-IT : 0030492

### Rahnema College

Oct 2023,Tehran ,Iran

- Back-End Development Bootcamp Certificate

Verification

- Link : <https://rahnemacollege.com/certificate/m.malekpoorV3dcqSi8iKcwFA>
- Credential ID m.malekpoorV3dcqSi8iKcwFA

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## Papers

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### Traffic anomaly detection theory based on technique and analysis

2016 ,Gachsaran - Sama Technical College

Verification

- Link : <https://civilica.com/papers/l-5702>

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## Skills

Java ( ●●●●●● )

Python( ●●●●●● )

TensorFlow( ●●●●●● )

Junit ( ●●●●●● )

Oracle BD ( ●●●●●● )

Docker ( ●●●●●● )

Java Script ( ●●●●●● )

Git ( ●●●●●● )

Spring Framework ( ●●●●●● )

PyTorch( ●●●●●● )

Hibernate Framework( ●●●●●● )

SQL Server ( ●●●●●● )

MySQL ( ●●●●●● )

HTML/CSS ( ●●●●●● )

Reactjs( ●●●●●● )

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## Language

### English

Reading ( ●●●●●● )

Writing ( ●●●●●● )

Speaking ( ●●●●●● )

Listening ( ●●●●●● )