



# MOHAMAD PARICHEHREH

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## HIGHLIGHTS

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- Skilled Data Scientist and ML developer having 3+ years of experience in designing and developing end-to-end ML and data pipelines.
- Demonstrated strong teamwork, representation, and leadership by collaborating with diverse individuals, eagerly tackling new challenges and adapting flexibly to evolving project demands.

## EXPERIENCE

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### **Spatial Data Analyst**

March 2025 – Present

CLIK - Connection Lab and Innovation Kitchen

Turin, Italy

- Improving the map section of the PoliTo Student App by fixing bugs and applying innovative solutions

### **Software Technician and Database Manager**

Sep. 2020 – Jan. 2021

Ministry of Education

Behshahr, Iran

- supporting and enhancing the technological infrastructure and data management systems critical to the educational sector.

## EDUCATION

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### **Master of Science** | *Data Science and Engineering*

Oct. 2023 – Present

Polytechnic University of Turin - (Website)

Turin, Italy

### **Bachelor of Engineering** | *Computer Engineering, Software*

Sep. 2017 – Feb 2022

Mazandaran University of Science and Technology - (Website)

Behshahr, Iran

## RELEVANT PROJECTS

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### **Polito Student Application**

[polito-student-app.git](https://polito-student-app.git)

CLIK - Connection Lab and Innovation Kitchen

- Developing an innovative and user-friendly solution to resolve bugs and enhance the map functionality of the PoliTo Student Application, utilizing QGIS, PostgreSQL, and advanced routing algorithms for improved spatial data handling and navigation.

### **American College Admissions Analysis**

[datamining-college.git](https://datamining-college.git)

Mazandaran University of Science and Technology

- Developed and optimized statistical machine learning models to predict future college admissions, using R scripting language.

### **Sentiment Analysis**

[sentiment-analysis.git](https://sentiment-analysis.git)

Polytechnic University of Turin

- Developed a sentiment analysis system for tweets using machine learning, focusing on classification models and feature extraction techniques. Found Logistic Regression with TF-IDF to be particularly

effective. The project supports businesses in understanding user sentiments to guide decision-making based on social media data.

### Patient Survival

[patient-survival.git](#)

Polytechnic University of Turin

- Developed a machine learning model to predict the survival of critically ill patients. The model aims to assist healthcare providers in making informed decisions regarding patient management.

### Particle Coordinates Analysis

[particle-coordinates.git](#)

Polytechnic University of Turin

- Implemented an efficient method for accurately predicting two-dimensional spatial coordinates (X, Y) of particles based on signal features extracted from detector pads

## TECHNICAL AND SOFT SKILLS

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**Languages:** Persian (Native), English (B2), Italian (A2)

**Programming:** Python, R, Java, C++, SQL, JavaScript

**NLP:** NLTK, Spacy, Gensim, Hugging Face, Stanza

**Databases:** MySQL, MongoDB, PostgreSQL Microsoft SQL Server, SQLite

**Libraries:** Sklearn, Keras, Pytorch, PySpark, Tensorflow, Pandas, Numpy

**Visualization:** matplotlib, Plotly, ggplot2, Tableau, Microsoft Power BI, LIME, Streamlit

**Tools and Frameworks:** Hadoop, Spark, Azure ML Studio, Linux, Git, Google Earth Engine, Google Street View

## INTERNATIONAL COMMUNITY ENGAGEMENT

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### Participant

Nov. 2024

Platforma Integracji Młodzieży

Poronin, Poland

- This 9-day project helped improve work-life balance by providing practical strategies for managing stress and enhancing mental and physical health. It offered engaging tools to reduce overload and promote overall well-being.

### Participant

Dec. 2024

Vakıf Ay Derneği

Koçali, Turkey

- This 9-day project equipped youth with skills in disaster preparedness, response, and resilience through workshops, discussions, and cultural exchange, fostering proactive leadership and stronger communities.

### Participant

Feb. 2025

Forward4Future

Vienna, Austria

- An 11-day training equipped young people in disadvantaged areas with entrepreneurial skills, helping them create job opportunities and drive economic growth. Participants also gained access to EU funding programs to support their initiatives.

### Participant

March 2025

Instytut Przeciwdziałania Chorobom Cywilizacyjnym

Zakopane, Poland

- An 8-day educational project to explore themes of tolerance, diversity, and discrimination in Europe. Through creative and non-formal methods, the project raised awareness, shared perspectives, and looked for inclusive solutions.