



MOHAMAD PARICHEHREH

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HIGHLIGHTS

- 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

Spatial Data Analyst

March 2025 – June 2025

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

Oct. 2020 – Jan. 2021

Ministry of Education

Behshahr, Iran

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

EDUCATION

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

Natural Language Queries for Egocentric Vision

egocentric-vision.git

Polytechnic University of Turin

- This project enhances egocentric video understanding by improving VSLNet with EgoVLP features, BERT encoding, and pretraining on queries generated by Gemma-2b, achieving better localization of answers to natural language queries in the Ego4D NLQ benchmark.

Polito Student Application

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

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://github.com/yourusername/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](https://github.com/yourusername/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](https://github.com/yourusername/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

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

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.