

Mobina Arabnejad

ML Engineer · Healthcare AI · Data Scientist

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SUMMARY

Skilled in applying Python and analytical methods to structured datasets for predictive and decision-support tasks. Highly motivated to develop expertise in machine learning applications within the healthcare sector. Experienced in deep learning, anomaly detection, and data-driven solution development.

EDUCATION

MSc Engineering Technology for Strategy and Security

Aug 2024 – Present

University of Genoa · Genoa, Italy

- ML techniques for data analysis, prediction tasks, and decision support problems
- Analytical, simulation-based, and anomaly detection models on structured datasets

BSc Electrical and Electronics Engineering

Sep 2019 – Sep 2023

Azad University, North Tehran Branch · Tehran, Iran

- Practical training in DC/AC circuit analysis, testing, and troubleshooting
- Thesis: Design of a Heart Rate Counting Device

PROJECTS

Brain Tumor Detection from MRI (Deep Learning)

Built a CNN model using TensorFlow/Keras for MRI classification (tumor vs. non-tumor). Applied custom preprocessing and data augmentation.

Chest X-ray Pneumonia Detection (Deep Learning)

CNN model to classify chest X-ray images (pneumonia vs. normal). Achieved up to 100% validation accuracy (~73% test accuracy).

Healthcare Anomaly Detection

Simulation-based and anomaly detection models on structured/time-dependent healthcare datasets for clinical decision-support applications.

WORK EXPERIENCE

English Teacher

Aug 2022 – Dec 2024

SpeakOn Language Institute · Tehran, Iran

- Developed strong communication, presentation, and time-management skills.

IT & Telecommunications Intern

Jun 2022 – Aug 2022

Telecommunication Company of Tehran · Tehran, Iran

- Assisted in basic system maintenance, troubleshooting, and technical documentation
- Gained exposure to operational IT workflows and network infrastructure

CERTIFICATIONS

Machine Learning Specialization · DeepLearning.AI

20/02/2026

Supervised ML: Regression & Classification · Coursera

Unsupervised ML, Recommenders, Reinforcement Learning · Coursera

Python for Data Science, AI and Development · IBM

08/11/2025

Introduction to Git and GitHub · Google

19/07/2025

SKILLS

ML & Deep Learning	Python · TensorFlow · Keras · Scikit-learn · Supervised & Unsupervised Learning
Data Analysis	NumPy · Pandas · Matplotlib · Seaborn · EDA · SQL
Tools	Git · GitHub · Microsoft Office (Excel, Word, PowerPoint, Outlook)
Project Mgmt	Agile · WBS · Statement of Work · Critical Path Method (CPM)
Soft Skills	Highly organised · Team player · Creative thinker · Strong communicator

LANGUAGES

Persian — Native · English — B2 Professional · Italian — A1 · German — Limited

CONFERENCES & SEMINARS

Genoa Week · University of Genoa · Genoa

Nov 2025