

Mahbod Issaiy

EDUCATION

Allame Tabatabaei High School, Tehran— *Diploma in Math*

2010 - 2014

Tehran University of Medical Sciences, Tehran— *Doctor of Medicine*

2014 - 2022

Certificates

Mathematics for Machine Learning Specialization

AI for Medicine Specialization

Machine Learning Specialization

How Diffusion Models Work Course

LangChain for LLM Application Development Course

ChatGPT Prompt Engineering for Developers Course

Machine Learning Course

Statistics Course

Epidemiology Course

Publications

Primary costal hydatid cyst resembling urolithiasis: A case report

Clinical and Brain Imaging Findings of Children with Acute Ataxia: Ten Years of Experience at a Major Pediatric Referral Center

Delayed-onset heparin-induced thrombocytopenia complicated with saddle embolus

Plasma cell leukemia presenting as spontaneous tumor lysis syndrome with hypercalcemia

SKILLS

Medical Research

Statistics

Mathematics

Programming (C, C++, C#, Python, Matlab/Octave)

Data Analysis (SPSS, Python)

Machine Learning (Matlab, Python)

Deep Learning (PyTorch)

Statistical Analysis (SPSS, Python)

2D and 3D Design

Microcontroller Programming

IoT

Digital Circuit Design

FPGA Programming

ACHIEVEMENTS

12th Rank (region 1) at 1393 Nationwide University Entrance Exam

LANGUAGES

Persian (Native)

English (Full Proficiency)

French (Beginner level)

Projects

- **Breast cancer pathology image classification using CNNs**
- **Chest X-ray image classification using transfer learning**
- **Chest-Xray image segmentation using a pre-trained model and AutoEncoder architecture**
- **Heart segmentation in MRI images using a 3D UNet model**
- **ECG arrhythmia classification using a 1D CNN network**
- **Virtual patient simulation using ChatGPT**
- **Automatic title/abstract screening using ChatGPT**
- **Unsupervised title/abstract rating for screening using information theory**
- **Fine-tuning GPT2 and ViT collectively to generate radiology report auto-completions**

