

# MOHAMMAD PARSIAN

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## EXPERIENCE

Signal Processing, AI, Optimization, Visualization

### Brain Signal Classification

📅 2022 - 2022

📍 NBML

- Signal Processing: filtering, denoising, time and frequency domain analysis of fNIRS and EEG Signals
- AI: classification of brain signals using deep learning and multiple machine learning methods in pytorch-lightning and AutoGluon.
- Optimization: building optimization pipelines to fine tune models in optuna.
- Visualization: building an online interactive dashboard using Plotly

Python

### Softphone Development

📅 2022 Oct - 2022 Dec

📍 HARA

- Python: Developing AI-based call center in python

Software Development

### WhoKnows Startup

📅 2018 - 2019

- Backend: Developing APIs in Python using flask and Django.
- Frontend: Building web apps using Angular.
- Devops: Managing repositories, keeping servers up, and designing CI/CD pipelines using GitLab, OpenShift, Docker, and Jenkins.

Miscellaneous

### Other Projects

- Texture Classification with Gabor filters in OpenCV
- Object Detection with SIFT and FREAK algorithms
- Vehicle Classification with interactive data visualization
- Face Recognition with Hough Transform
- Holland Psychology Test Website
- Numerous Web Scraping Projects

## EDUCATION

M.Sc. in Cognitive Science

### Tehran University

📅 2022 - ongoing

B.Sc. in Computer Engineering

### Bu-ali Sina University

📅 2017 - 2022

## ACHIEVEMENTS



**1th Place in Master's Exam 2022**  
Iran's Cognitive Science Master's



**2th Place in fNIRS Competition 2022**  
Second NBML's fNIRS Competition



**13th Place in ACM ICPC 2018**  
Asia's West Region - Tehran Site



**1th Place in PAYA League 2013**  
International Mathematics Contest

## SKILLS

Python (5+ years)



AI (3+ years)



Backend (3+ years)



Frontend (3+ years)



Computer Vision (1+ years)



Signal Analysis (1+ years)



## LANGUAGES

Persian



English



## CHARACTERISTICS

Pragmatic

Creative

Minimalist

## INTERESTS

Artificial Intelligence

Cognitive Science