REYHANEH BOROUGHANI

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🌐 reyhaneh-boroughani.github.io
in /reyhaneh-boroughani/
⌂ /Reyhaneh-Boroughani/

EXPERIENCE

Data Analyst
Internship at Institute of BioRobotics at Scuola Superiore Sant'Anna

📅 March 2020 – July 2020   📍 Pisa, IT

- Time series pre-processing: alignment, outlier detection, cleaning.
- Time series analysis and classification: time-frequency analysis, feature extraction, classification.

Medical Representative
Varian Pharmed Company (golrang industrial group)

📅 Jan 2017 – July 2018   📍 Tehran, IR

- Promote the company products to doctors, hospitals, and pharmacies
- Travel across several cities of Iran to manage the supply and demand.

Research and Development (R&D)
Varian Pharmed Company (golrang industrial group

📅 Mar 2017 – July 2018   📍 Tehran, IR

- Data analysis to illustrate the market share and sales of the company

EDUCATION

M.S. in Bionics Engineering (Major: Neural Eng.)
University of Pisa and Scuola Superiore Saant'Anna

📅 Sept 2018 – present   📍 Pisa, IT

B.S. in Biomedical Engineering (Major: Bioelectric Eng.)
Amirkabir University of Technology

📅 Sept 2011 – Feb 2016   📍 Tehran, IR

PROJECTS

Raw Primary Motor Cortex Extracellular Signals Data Analysis and Classification.
Internship In Institute of BioRobotics at Scuola Superiore Sant'Anna

📅 2020 – 2020   📍 Pisa, IT

Supervisors:Dr. Silvestro Micera, Dr. Alberto Mazzoni, Dr Fabio Vallone

Source code, MATLAB

Motor Neuron Pool Design and Implementation for Facilitating the Prosthesis Control
Neural Interfaces and Bioelectronics Course Project at Scuola Superiore Sant'Anna

📅 2020 – 2020   📍 Pisa, IT

Source code, MATLAB

Implementation of Hebbian Learning, Hopfield Networks, Liquid State Machines.
Computational Neural Networks Course Project at University of Pisa

📅 2019 – 2019   📍 Pisa, IT

MATLAB

Visual Discrimination of Geometric Shapes, Encoding and Decoding Using two-layer Izhikevich Neuron model
Neuromorphic Course Project at University of Pisa

📅 2018 – 2018   📍 Pisa, IT

Source code, LabVIEW

The Effect of Thickness of Scalp and Skull on Bioimpedance Measurements Using PCA Method
BSc Thesis at AmirKabir University of Technology

📅 2015 – 2016   📍 Tehran, IR

MATLAB

SKILLS AND TOOLS

Machine Learning   Deep Learning
Data Analysis   Data Mining
Design and Modelling

MATLAB   Python   C++

LabViEW   Ansys   Simulink   Weka
Cura   Autodesk Fusion 360

Microsoft Office   LaTeX

LANGUAGES

English   ●●●●●
Persian   ●●●●●
Italian   ●●○○○