REYHANEH BOROUGHANI

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🌐 reyhaneh-boroughani.github.io   🔗 /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
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

MATLAB

Next Step Prediction Task Using TDNN, RNN, and ESN
Computational Neuroscience Course Projects at the University of Pisa

📅 2018 – 2019   📍 Pisa, IT

MATLAB

Implementation of Learning Rules, and Hopfield Network
Computational Neuroscience Course Projects at the 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

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` `Weka` `Cura` `Autodesk Fu`

`Microsoft Office` `LaTeX`

`Languages:` `Persian(Native)` `English (C2)` `Italian (A1)`