ARMIN NAVARDI

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EDUCATION

B.Sc. in Electrical Engineering - Bio-Electric
Sharif University of Technology
📅 2020 – Ongoing

RESEARCH INTERESTS

Biomedical Signal and Image Processing | Computational Biology | Artificial Intelligence and Machine Learning | EEG | fMRI | Neuroscience | Financial Data Processing | Statistics

RESEARCH

EEG signals classification and functional connectivity
Classifying EEG signals of motor imagery tasks in a BCI system by using coherence analysis and graph-based methods

Statistical analysis and AI in financial markets
Applying signal processing and deep reinforcement learning for decision making in financial markets

MAIN PROJECTS

Trading Bot using AI
Implementing fully automated trading bot by using convolutional neural network and PPO algorithm

Circle detection in images
Detecting circles in image by correlation and oriented gradients

House Price Estimation
Training linear regression model with implemented stochastic gradient decent optimizer for house price prediction

Student Score Prediction
Score prediction by using KNN and ALS algorithms

EEG signal acquisition circuit
Designing EEG signal acquisition circuit including amplifier, band-pass filters and notch filter

DPCM Transmitter
Implementing digital transmitter of sound with differential pulse-code modulation

Breakout Game
High quality implementation of Breakout game using SDL framework

LANGUAGES

Persian
English

ACHIEVEMENTS

🏆 **Achieving silver medal in National Physics Olympiad**

🏆 **Member of National Elites Foundation**

🏆 **Achieving the 384Th rank in the B.Sc.'s degree entrance exam in 2020**

SKILLS

Machine learning | Signal Processing | Deep Learning | Image Processing | Reinforcement Learning | Tensor Factorizations | Optimization | Meta-heuristic Algorithms

Python | MATLAB | PyTorch | TensorFlow | SciKit | LaTeX | LabChart | Java | C/C++ | SDL | LTspice | Verilog

MAIN COURSES

Statistical Learning
Sharif University of Technology

EEG signal processing
Sharif University of Technology (audit)

Biomedical Image Processing
Sharif University of Technology (audit)

Reinforcement Learning for Trading Strategies
Google Cloud - New York Institute of Finance

Tensor Decompositions
Sharif University of Technology

Convex Optimization
Sharif University of Technology

Digital Signal Processing
Sharif University of Technology

Sequences, Time Series and prediction
DeepLearning.AI