Mohammadtaha Amini

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GitHub: github.com/sadfish101

Education

ISLAMIC AZAD UNIVERSITY – CENTRAL TEHRAN BRANCH
BSc in Computer Science, GPA 18.34/20.00(3.78/4.0)   Expected Q1 2026
Relevant Coursework: Advanced Programming, Introduction to Data Mining, Data Structure & Algorithms, Fundamentals of Matrices and Linear Algebra, Principles of Software Design, Linear Optimization, Artificial Intelligence, Non-linear Optimization, Fundamentals of Theory of Computation, Compilers

SALAM HIGH SCHOOL   Tehran, Tehran Province
Experimental Science, GPA 19.32/20.00(3.86/4.0)   21st June 2022

Relevant Personal Projects

Bot Detection Using Multi-Layer Perceptrons
Initially coded for a university event, preprocessed a JSON dataset and used a common MLP model for bot detection

Implementing LIME (Local Interpretable Model-Agnostic Explanation) on CNN Classifiers
Virus Microscopy Images (22 classes) and Mushroom Species Dataset

Tabular Data Augmentation via Non-Linear Interpolation for A Prediction Task
Implemented non-linear interpolation methods (Multiquadric, Inverse and Gaussian RBF) to augment sparse tabular data

Wildfire Image Classification Using a Custom CNN Architecture
Designed a CNN architecture optimized for wildfire image classification

GNB-MLP Hybrid Model for Classification
Fused Gaussian Naive Bayes (GNB) with Multilayer Perceptron (MLP) to improve classification accuracy on low-correlation synthetic data

Skills

Language:
- **English**: IELTS Overall Band Score 8.0 (Listening 8.5, Reading 8.5, Writing 7.0, Speaking 8.0)

Technical:
- **Programming Languages**: Python, R, SQL(MySQL), C++

- **Data Analysis**: Numpy, Pandas, Matplotlib, Seaborn, SciPy
- **Machine Learning**: Pytorch, LIME and SHAP, Scikit-Learn, Pillow, PySpark
- **Quantum Computation**: Fundamentals of Quantum Computation, PennyLane
- **Mathematics**: Linear Algebra, Theory of Probability, Optimization, Numerical Analysis

Relevant Courses

Mastering Machine Learning with Python: A Comprehensive Online Course – Faradars
Python Libraries for Machine Learning and Deep Learning – Faradars
Web Design Pack – Academic Center for Education, Culture and Research (ACECR)
Medical Image Processing and Classification with Python – Faradars

Honors

Consistently distinguished student each semester during my Bachelor's program