Termeh Taheri

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Research Interests: Multimodal machine learning, large language models, audio & music AI

EXPERIENCE

AI Engineer, London College of Business Studies Jul 2025 - Present

- Developed and deployed an AI-powered tutoring system using LLMs and prompt engineering, enabling personalized, context-aware feedback for students
- Built secure, scalable backend infrastructure (FastAPI, PostgreSQL, Docker) and optimized API performance for seamless LLM integration with the React frontend

Software Engineer, Roshan Company Aug 2022 - Aug 2024

- Built and maintained scalable backend systems for AI-driven applications using Python (Django, FastAPI), PostgreSQL, and Docker, with a focus on performance, modularity, and reliability
- Designed secure REST APIs and data pipelines integrating ML models and external services, and automated deployment with GitLab CI/CD and Pytest

Teaching Assistant (Data Structures), Noshirvani University of Technology Feb 2020 - Jun 2020

- Assisted undergraduate students with core data structures concepts and project implementation

PUBLICATIONS

Taheri, T., Ma, Y., & Benetos, E. (2025). SAR-LM: Symbolic Audio Reasoning with Large Language Models. *Proceedings of the 1st Workshop on Large Language Models for Music & Audio (LLM4MA), ISMIR 2025 (also under review at ICASSP 2026)*

Taheri, M., & Omranpour, H. (2024). Breast cancer prediction by ensemble meta-feature space generator based on deep neural network. *Biomedical Signal Processing and Control*, *87*, 105382.

Omranpour, H., Mohammadi Ledari, Z., & **Taheri, M.** (2023). Presentation of encryption method for RGB images based on an evolutionary algorithm using chaos functions and hash tables. *Multimedia Tools and Applications*, *82*(6), 9343-9360.

EDUCATION

MSc. Artificial Intelligence - Queen Mary University of London September 2025
Thesis: **SAR-LM: Symbolic Audio Reasoning with Large Language Models (**accepted at *LLM4MA Workshop, ISMIR 2025, oral*; under review at *ICASSP 2026*)
Advisor: Prof. Emmanouil Benetos

B.Sc. Computer Engineering - Noshirvani University of Technology July 2022
Thesis: **Ensemble deep learning algorithm for medical image analysis**
Advisor: Dr. Hesam Omranpour

Selected Projects

Demucs Stem Classifier — Training-free audio stem classification (vocals, drums, bass, other) using Demucs separation with energy-based confidence scoring.

Audio Mix Reconstruction — Reconstructed master mixes from stems using ridge regression, reporting R^2/MSE and per-stem gains.

SOFTWARE PROFICIENCY

Python, TensorFlow, PyTorch, Scikit-learn, Keras, Librosa, FFmpeg, Essentia, SciPy, OpenCV, NLTK, PostgreSQL, Docker, Linux, Celery, Pytest, FastAPI, ElasticSearch, C++, Java, MATLAB, React, HTML, CSS

HONORS & AWARDS

Chevening Scholarship: Full scholarship recipient for MSc Artificial Intelligence, QMUL 2024–2025
Babol Noshirvani University of Technology: First place for the best bachelor project across all departments 2022
Research Grant (No P/M/1110): Supported publication in *Biomedical Signal Processing and Control* 2021