

# Termeh Taheri

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## 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

## Ongoing Research

**SAR-LM (MSc thesis)** — Developed a text-based symbolic representation framework to enhance the audio reasoning ability of LLMs (speech, sound, music). Evaluated on MMAU benchmark, achieving competitive results with end-to-end baselines while improving interpretability. *Under review (LLM4MA 2025)*.

## RECENT PUBLICATIONS

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.

## 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.

## EDUCATION

MSc. Artificial Intelligence - Queen Mary University of London

September 2025

*Thesis: SAR-LM: Symbolic Audio Reasoning with Large Language Models*

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

## 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