Termeh Taheri

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EXPERIENCE

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

- Designed and deployed an AI-powered tutoring system using large language models (LLMs) and advanced prompt engineering, delivering personalized, context-aware feedback that improved clarity and student engagement
- Built the backend infrastructure from scratch with FastAPI, PostgreSQL, and Docker, implementing secure and scalable APIs to integrate LLMs and external services
- Optimized system reliability and response time by hardening API security, streamlining LLM inference workflows, and ensuring seamless integration with the React frontend

Software Engineer (Backend), Roshan Company Aug 2022 - Aug 2024

- Built scalable backend systems with **Python (Django, FastAPI)** for AI-powered applications, focusing on performance, modularity, and maintainability
- Designed and optimized **REST APIs** and data pipelines, integrating machine learning models and external services
- Deployed and maintained production services on remote **Linux** servers, ensuring system configuration, security, and service reliability
- Implemented **CI** pipelines with GitLab, including automated testing (Pytest) and containerization (Docker), to support reliable backend development

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.

Ongoing Research

Symbolic Audio Reasoning with LLMs

Exploring how symbolic representations of audio can be used to enable natural language reasoning over sound. The project focuses on designing a lightweight and interpretable framework that bridges audio understanding with large language models for multi-step reasoning tasks. Evaluation involves audio-based question answering.

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