Ali Dasmeh

Research Engineer, Software & ML

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Work Experiences

2025/04 – now	**Research Engineer** Max Planck Society – Human Development Berlin, Germany **: […] + PyTorch + TensorFlow + PostgreSQL + ElasticSearch + Kibana + HuggingFace + vLLM + SLURM**
2024/08 – 2025/03	**Research Engineer – Working Student** Max Planck Society – Human Development Berlin, Germany **: ReactJS (NextJS), MongoDB, Python, FastAPI, Docker, Kubernetes, Cloud (DWDG)**
2023/12 – 2024/07	**Software Engineer – Working Student** Wayfair Berlin, Germany - EU Office **: Spring Boot, Kotlin, PostgreSQL, NextJS, Docker, Kubernetes**
2021/06 – 2023/09	**Co-founder and CTO** Cor-Tex.app **: NodeJS (Express), MySQL, HTML, CSS, React**
2018/02 – 2023/09	**Developer and Supporter** IFST (Iran Foundation of Science and Technology) **: PHP, NodeJS (Express), MySQL, HTML, CSS**
2015/09 – 2018/02	**Co-founder and CTO** ArtYad ArtYad was a startup in the field of e-learning. Due to some teaming problem, it shut down. **: PHP, MySQL, HTML, CSS**

Education

2023 – 2025	**Software Engineering** Master's Degree – University of Europe for Applied Science
2020 – 2022	**Cognitive Science – Design and Creativity minor** Master's Degree - Institute for Cognitive Science Studies
2013 - 2018	**Music – Iranian Music Performance** Bachelor's Degree - University of Tehran

Publications

> **A Study on Improving Kansei Engineering Precision through the Implicit Association Test.**
> International Journal of Architectural Engineering & Urban Planning, Nov 2025.
> Co-authored with N. Koleini Mamaghani and P. Hassani-Abharian.

> **Comparison Between Discrete and Analog Semantic Differential Scales Accuracies in Kansei Engineering (Case Study: Reception Chairs).**
> Journal of Design Thinking, Vol. 5, No. 1, pp. 47–56.
> Co-authored with N. Koleini Mamaghani and P. Hassani-Abharian.

> **Deep Learning-Based Cloned Structured Causal Graphs for World Model Learning**
> University of Europe for Applied Sciences (Potsdam), March 2025

Supervised by Dr. Tristan Stober and Prof. Dr. Iftikhar Ahmed
Summary: Using deep learning techniques to improve the generalization capacity of the Hidden Markov Model based cognitive maps.

> **Analysis of Cognitive Assessment Paradigms in Improving Emotion Measurements in Kansei Engineering**
> Iran Institute for Cognitive Science Studies, Summer 2022
> Supervised by Dr. N. Koleini Mamaghani and Dr. P. Hasani Abharian
> Summary: Implementing Behavioural and Brain Imaging (EEG/ERP) methods on the Kansei method to improve its precision.

> **Pivots of Computational Music Composing Using Artificial Intelligence**
> University of Tehran, Summer 2018
> Supervised by Dr. K. Moulana
> Summary: Using machine learning techniques to compose pieces of music based on the users' general preferences.

Software and AI/ML Skills

Programming Languages
> Python
> JavaScript
> Kotlin
> MatLab

Web Development

Frontend
> ReactJS
> NextJS
> ReactNative

Backend
> Python (FastAPI, Flask)
> Kotlin (Spring)
> NodeJS (Express)
> PHP
> SQL: MySQL, PostgreSQL
> Mongo DB

AI, ML, Data Science
> PyTorch
> Keras
> Numpy, Pandas, Matplot, SciKit-Learn, Beautiful Soup (Data Science tools)
> JavaScript : TensorFlowJS, ml5.js, brain.js
> Tableau

Cloud: AWS, GCP
Matlab Libraries: EEGLab, ERPLab

Certifications

> **AWS Cloud Practicioner Essentials** (Overall Score: 92/100) **–** FutureLearn – Certificate ID : c7ixsox

> **Migration to AWS cloud** (Overall Score: 80/100) **–** FutureLearn – Certificate ID : b71nhsh

> **Data Science with Python** - Simplilearn - Certificate Code: 3433341

> **Data Dashboards and Storytelling with Tableau** (Overall Score: 86/100) **–** FutureLearn – Certificate ID : 2apk6cd

> **Data Visualisation with Python: Matplotlib and Visual Analysis** (Overall Score: 83/100) **–** FutureLearn – Certificate ID : 3qdd9uz

> **Ethics of Neuroscience and AI (Certified) -** Bernstein Center for Computational Neuroscience Berlin – 2024

> **Machine Learning with JavaScript - Udemy** - Credential ID UC-5df1556e-658a-4ccb-4a5018a4619

> **Building IoT Solutions for Energy and Water Resource Management** - ITU - CredentialID: s6i39rD0LB

> **Digital Transformation: Enhancing IoT Driven Accessibility for PWD** - ITU - CredentialID: MquJVHrW3C

Achievements

> Awarded **Full Scholarship** for Undergraduate Program
> Ranked 155 among 80,000 participants in the nationwide university entrance exam
> **TEDx Talker** (Naghsh-e Jahan): Can algorithms reveal the hidden half of music?
> Startup mentor at Cognotech (Accelerator in the field of cognitive Startups.)
> University of Tehran Science & Technology Park award for inspiring start-up ideas
> Avatech award for inspiring start-up ideas
> Lecturer at **MFT** in the IT department

Languages

> Farsi/Persian : Native
> English : C1 (IELTS: 7.0)
> German : A1