ZAHRA SANGBORI TOROGHI
AI/ML SPECIALIST

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Data-Science-Portfolio

LinkedIn
ISTAMBUL / TURKEY

OBJECTIVE

Experienced **AI/ML Specialist** with a strong background in developing scalable machine learning models to solve complex problems. Skilled in Python, TensorFlow, and deploying AI systems on cloud platforms like AWS and Google Cloud. Proven ability to enhance accuracy, optimize system efficiency, and collaborate with cross-functional teams. Passionate about innovation and excited to bring my expertise to your forward-thinking team in a fully remote role.

SKILLS & ABILITIES

Machine Learning, Deep Learning, Data Analysis, Algorithm Development, Python Programming, TensorFlow Expertise, NLP Techniques, Model Deployment, Problem Solving, Team Collaboration, Financial Analysis, MySQL in Python, Data Cleaning, Scikit-learn, Problem-Solving Skills, Communication Skills, Teamwork and Collaboration, Mathematics.

EXPERIENCE

Duration: 4 months

AI/ML Specialist (Freelance)
Generative AI

Fine-tuned large language models (LLMs) such as **Falcon-7b** using **LoRA** to optimize text generation and summarization.

Applied **Prompt Engineering** and **Retrieval Augmented Generation (RAG)** techniques to enhance model performance for large datasets.

Duration: 6 months

Machine Learning Engineer (Freelance)
Alzheimer's CV-BOLD Classification

Developed machine learning models that improved the classification performance of imbalanced Alzheimer's fMRI images by 12%.

Collaborated with a team of neurological researchers to analyze complex datasets and provide insights for disease understanding.

Published results in a scientific paper submitted to ISPr 2023.

Duration: 5 months

Machine Learning Engineer (Freelance)
Building Movie Recommendation System using Pyspark

Designed and implemented a movie recommendation system using **Alternating Least Squares (ALS)** algorithm in **PySpark**.

Optimized recommendation accuracy by processing large datasets (MovieLens) and enhancing user experience through data-driven insights.

Duration: 3 months	**[AI Developer (Freelance)](#)**
	Real-Time Car Plate Detection Mobile Application

Developed and deployed a real-time car plate detection mobile application using **TensorFlow** and **EasyOCR**.

Optimized object detection models, improving accuracy and performance in real-time environments.

Duration: 4 months	**[AI Developer (Freelance)](#)**
	Real-Time Sign Language Interpretation Web Application

Built and deployed a real-time sign language interpretation application using **TensorFlow** and **React.js**, hosted on IBM Cloud.

Enhanced recommendation engine accuracy by 25% through machine learning model optimization.

Improved data processing speed by 50% through distributed computing techniques.

EDUCATION

June 2019- June2023

BACHELOR'S DEGREE MATHEMATICS IN K.N.TOOSI UNIVERSITY OF TECHNOLOGY
TEHRAN/IRAN

RESEARCH EXPERIENCE :Alzhimers cv-bold classification: utilized python to develop supervised machine learning (revise)

TEACHING EXPERIENCES | K.N.TOOSI UNIVERSITY OF TECHNOLOGY | 06/2021 - 06/2022: error correction coding: mathematical method and algorithms instructor: dr. khodai mehr

COMMUNICATION

- Effectively communicated complex technical concepts and machine learning results to non-technical stakeholders, ensuring a clear understanding of AI/ML project impacts.
- Regularly collaborated with cross-functional teams, including data scientists, engineers, and researchers, to discuss data-driven insights and improve project outcomes.
- Authored scientific papers and technical reports summarizing project findings, such as Alzheimer's CV-BOLD classification project, which were submitted to international conferences.
- Presented AI/ML model results and recommendations in clear, concise formats to clients and collaborators, facilitating data-driven decision-making.

LEADERSHIP

- Led multiple AI/ML projects simultaneously, including the development of real-time sign language interpretation and car plate detection applications, while ensuring timely delivery and meeting tight deadlines.
- Managed end-to-end project lifecycles, from ideation to deployment, overseeing the technical teams and ensuring project goals were met with high-quality standards.
- Provided mentorship and guidance to junior developers and researchers, helping them follow best practices in AI/ML model development and deployment.
- Successfully coordinated team efforts in collaborative research environments, such as the Alzheimer's CV-BOLD classification project, achieving significant performance improvements.