Mohammad Mehdi Jafari

I am fully committed to taking ownership of my product and going above and beyond the typical 9-to-5 job to add genuine value. My experience in developing personalized chatbots and automated question-answering systems, as well as working alongside medical practitioners, has given me a deep appreciation for using AI to assist people with their problems. I understand the dedication required for this position, and I am highly adaptable to its demands. I am eager to face any practical challenges and tests that come my way to demonstrate my qualifications and readiness.

Contact

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LinkedIn:	Mohammad Mehdi (meti) Jafari
GitHub:	Meti-94 - Projects I'm interested in and work on daily
StackOverflow:	meti - Contributing back to the community
Google Scholar:	Mohammad Mehdi Jafari - Academic research in ML, NLP and AI

Work Experience

AI Team Lead, Hooshyar 2023 - Present

- Applied data-driven insights to streamline business operations, resulting in a significant increase in efficiency and cost savings.
- Employed statistical techniques and data mining to generate actionable reports that assisted in strategic decision-making.
- Collaborated with stakeholders to implement data models for audience segmentation, leading to more targeted marketing strategies and improved business outcomes.
- Presented findings and recommendations to both technical and non-technical stakeholders, facilitating a better understanding of data-driven strategies.

Data Engineer, MCI HUB 2022 - 2023

- Designed and implemented data anonymization and pseudonymization strategies to ensure data privacy and compliance with regulatory requirements.
- Leveraged NLP algorithms for text data processing and extraction, resulting in improved data quality and accuracy.
- Developed key phrase extraction mechanisms for language-specific content, aiding in better content organization and search functionality.

Data Scientist, Hooshyar 2020 - 2022

- Developed an AI-powered system for identifying COVID-19 using CT scans and cough sounds.
- Collaborated with radiologists and clinicians to validate the model's performance and ensure its clinical applicability.
- Deployed the system into the hospital's workflow, enabling faster and more accurate triage of COVID-19 patients.
- Designed and developed data-driven solutions, including chatbots and text summarization, to improve customer engagement and content accessibility.
- Implemented information retrieval systems using search engines including Solr and Elastic Search, enhancing data accessibility and search capabilities.

NLP Specialist, CICAP 2018 - 2020

- Built sentiment analysis models using deep learning techniques, improving the accuracy of emotion detection in customer interactions.
- Developed hate-speech detection solutions with high precision using advanced NLP models, contributing to content moderation and customer safety.
- Designed and deployed APIs for model serving, enabling easy integration of NLP solutions into existing systems.
- Established data acquisition pipelines tailored to specific use cases, ensuring data integrity and relevance for analysis.

Publications

Improved Relation Span Detection in Question Answering Systems over Extracted Knowledge Bases (2023). Published in *Expert System With Applications*. - This rigorous research bridges **named-entity recognition**, **token classification**, and **graph-based databases**. Leveraging advanced algorithms, including various BERT variants combined with **CNNs** and **RNNs**, the study benchmarks cutting-edge methods in computational analytics.

Improving Pre-trained Language Models for Relation Extraction Using Syntactic Information in Persian (2021). Published in *ACL Anthology*. - Centered on enhancing **entity detection** and **semantic parsing**, this work utilized innovative methodologies to introduce **auxiliary information** into **Transformer-based models**. Such advancements highlight the potential in predicting structured data interactions, relevant to financial modeling.

Enhancing Coherency in Personalized Chat-bots Using Differentiable Neural Computers (2019). Published in *IKT - Domestic*. - Investigating the augmentation of memory attributes in RNNs, **GRUs**, and LSTMs, the paper underscores the power of specialized memory mechanisms deploying **attention**. While focusing on chat-bots, the insights extend to a broader range of **sequence-to-sequence** analytical tasks, emphasizing predictive algorithmic capabilities.

A Question Answering System Based on Knowledge Base Using Deep Learning (2019). Published in *IKT - Domestic*. - Venturing into the domain of **information retrieval**, this research underscores the potency of **MLPs** over conventional heuristics, showcasing advancements in algorithmic performance. Such explorations signal the potential in extracting predictive patterns from vast datasets.

Education

Shahid Beheshti University 2017 - 2020
M.Sc. in **Artificial Intelligence** and Robotics
Shiraz University 2012 - 2017
B.Sc. in **Computer Engineering**

Languages

Persian: Mother Tongue
English: Fluent (IELTS 7.0)