Alireza Saebi

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Summary

Passionate AI Consultant and Researcher with 15+ years of experience designing and implementing cutting-edge AI solutions using NLP, SNA, machine learning, and data analysis. Proven track record of driving business improvement in SMBs, particularly in performance and process management. Successfully developed and implemented AI-powered solutions that increased the efficiency of enterprise resources by at least 30% and reduced costs (or increased income) by at least 20% through improved workflows and resource management via data-driven decision-making. Eager to leverage strong leadership, communication, and technical skills to contribute to impactful research, education, or business initiatives in a collaborative and forward-thinking environment. Published author and collaborator, excited to make a difference through innovative AI applications.

Experience

Independent AI Researcher & Consultant

Self Employed, 03/2022 - Present

- Developed innovative Persian sentence structure training software using NLP & SNA, revolutionizing language learning (quantify impact if possible).
- Translated key academic texts on Digital Humanism, bridging language barriers & facilitating knowledge transfer.
- Submitted research on cutting-edge AI & NLP topics (like Persian verb negation algorithm and user behavior analysis).

Senior AI Consultant

Hamfekran Information Technology Group, 05/2020 – 03/2022

- Revolutionizing language learning, I leveraged NLP and SNA to develop a groundbreaking Persian sentence structure training software. This innovation enabled personalized exam generation, reducing teacher preparation time by 97% (from 10 hours to 30 minutes) and, significantly improving learning outcomes and automating exam performance. Enhancing customer satisfaction and support, I analyzed data and automated support procedures, boosting efficiency and responsiveness and leading to a 20% increase in customer satisfaction. I also safeguarded against fraud by identifying potential fraudulent behaviors through advanced data analysis of software usage trends and customer payment data.

Additionally, I streamlined operations and boosted efficiency by establishing the Project Management Office and implementing the Peirang issue tracker software, greatly enhancing collaboration, workflow, and overall project and operational efficiency.

Senior Consultant, Senior Data Scientist

I.R.J.I., 01/2013 – 05/2020

- Harnessing SNA for judicial efficiency, I designed and implemented a top-tier Social Network Analysis system for legal parties, leveraging advanced machine learning to uncover hidden connections and improve judicial effectiveness. As the founder and leader of the Project Management Office, I established streamlined processes ensuring on-time, on-budget project delivery, significantly contributing to organizational goals. Additionally, I utilized data analytics and visualization tools to create business intelligence systems, extracting insights to optimize operations, improve services, and enhance overall performance.

Visiting Researcher

Technische Universität Wien, 09/2016 – 11/2016

- Developed innovative hotel recommendation module using SNA, NLP, and machine learning.
- Analyzed hotel descriptions (features, amenities, activities) to understand tourist behavior and preferences.
- Leveraged data collection, preprocessing, and analysis skills to handle complex datasets.
- Extracted and visualized meaningful knowledge as a conceptual graph from raw texts.

Executive Leadership

NamAvaran, 09/1994 – 11/2015

- Led a software development company, overseeing commercial, technical, and organizational aspects.
- Managed diverse teams and oversaw day-to-day operations, ensuring efficient resource allocation and strategic decision-making.
- Played a crucial role in expanding business reach into new markets, demonstrating an understanding of market trends and strategic planning.

Teacher Assistant

Amirkabir University of Technology - Tehran Polytechnic, 09/2009 – 10/2013

- Instructed graduate courses in IT and CS, including Data Mining, Strategic Planning, E-Commerce Systems Engineering, Virtual Team Management, and Project Management.
- Developed and delivered course materials, facilitated discussions, and evaluated student learning.
- Mentored graduate students on research projects, fostering critical thinking and analytical skills.

Education

M.Sc., Information Technology, 09/2009 – 10/2011

- Amirkabir University of Technology - Tehran Polytechnic
- Graduated 2nd rank in class with a GPA of 18.96 (out of 20)
- Thesis: Strategic Planning for Agent-based Supply Chain Management (Developed software in Jade, Java, and Oracle platforms using Reinforcement Learning techniques)

B.Sc, Software Engineering, 09/1992 – 10/1996

- Islamic Azad University

Licenses & Certifications

Deep Learning:

- DeepLearning.AI TensorFlow Developer: Completed comprehensive coursework and exams (RefNo: TV4YR4JWRAJD).
- DeepLearning.AI TensorFlow courses: Completed "Introduction to TensorFlow," "Convolutional Neural Networks," and "Natural Language Processing in TensorFlow" (RefNo: AGJXYMXDSX5V, XBKDZ3NXFY2X, XWX9W3JJZLJ5).

Data Science & Python:

- Applied Data Science with Python Specialization: Completed Coursera program covering data analysis, machine learning, and project implementation (RefNo: 32VZ7MR4LSNG).
- Courses in Applied Machine Learning and Data Science: Completed multiple courses on relevant topics through Coursera (RefNo: YXD4CW6PG6C3, 9DEFXVKNW869).

Natural Language Processing:

- Machine Translation: Completed the course from Karlsruhe Institute of Technology (RefNo: G2XFXC7AFJCW).
- DeepLearning.AI Natural Language Processing with Sequence Models: Learned advanced NLP techniques (RefNo: X5BUAZCNVQZG).
- Coursera Natural Language Processing courses: Completed "Natural Language Processing with Probabilistic Models" and "Applied Social Network Analysis in Python" (RefNo: YE3NTQQKZF72, MMFCEPLUM2BX).

AI Ethics & Digital Policy:

- CAIDP AI POLICY CLINIC - Research Group (Distinction) at Center for AI and Digital Policy (Credential ID: 7008acf1-e22d-4154-a9d9-19efeaffbd51).
- 2nd Digital Humanism Summer School at TU-Wien (09/2023)

Publications

- The book "Perspectives of Digital Humanism" was translated into Farsi (02/2024).
- The book "Agent-Based Supply Chain Management", Naghoos, (10/2010)
- Digital Humanism Indicators, Article submitted for verification (10/2023)
- A Neighbor-based Link Prediction Method for Bipartite Networks, Journal of Information and Communication Technology, (02/2020).
- A strategy-based trust model to the management of supply-chain intelligent agents, 8th International Conference on Strategic Management, (03/2011)

Skills

Technical Skills:

- Machine Learning & Deep Learning: TensorFlow, Keras, Scikit-learn, Reinforcement Learning
- Data Analysis & Visualization: Pandas, Matplotlib, SQL, MySQL, ETL, Data Warehousing
- Natural Language Processing: Stanza, RegEx, Text Analysis Techniques
- Graph Analytics & Network Science: NetworkX, Community Detection, Link Prediction, Graph Data Management, Structural and Behavioral Analysis
- Programming Languages: Python (proficient), PHP (expert), JavaScript, HTML

Additional Skills:

- Highly proficient in data collection, cleaning, and preprocessing; expert in statistical analysis, hypothesis testing, experiment design, and model development; accomplished in research paper writing and presentation; specialized in social network analysis and understanding network dynamics; and deeply knowledgeable in Digital Humanism and ethical AI development.
- Project management: Agile methodologies, team leadership, communication
- Communication: Written and verbal communication skills for technical audiences

Languages

- Farsi - Native
- English - Proficient
- German - B1 (actively working to improve to B2 level)

This is my short CV. You can find more details on my LinkedIn.