

Babak Barghi

AI Solutions Architect – Digital Transformation Expert

As an engineer & researcher, I bring a robust 6-year track record in driving Industry 4.0 innovations through the design & automation of complex processes. My proficiency extends to the practical use cases of AI, machine learning models, data mining & development of intuitive software applications. I excel in translating business requirements into efficient technical solutions. Capable of unleashing the creativity of multidisciplinary teams to create innovative and scalable intelligent systems.

WORK EXPERIENCE

IT Graduate Program

Full-time, 09/2022 – present

Continental

AI Production Planning Strategist – Tires IT (Hannover)

- Conducting strategic analysis of current AI applications in production planning, proposing improvements to boost accuracy and operational efficiency, aligning with the company's 2030 vision.

Software Developer for Business Applications – Auto IT (Mexico)

- Engineered Windows & web apps, and assisted in migrating special applications to new Windows Server environments. (+6 applications)

Global SAP Rollout Support – Auto IT (Frankfurt)

- Managed FitGap Sessions and Strategy Blueprint for the SAP Integrated Business Planning, overseeing data validation and customizing for PP module across Mechelen & Timișoara plants.

Data Scientist – Tires R&D (Hannover)

- Developed new data pipelines for Rubber Technology Group, leading the machine learning process from data acquisition to insight generation.

AI Researcher

Part-time, 11/2020 – 02/2022

TechTalentLab – Polytechnic University of Catalonia (Barcelona)

- Drove AI research in e-recruitment, emphasizing the application of Large Language Models for Natural Language Understanding and Human-Robot Interaction, while leading the development & launch of advanced recruitment chatbots tailored for Ph.D. candidate enrollments.

Software Implementation Expert (ERP)

Full-time, 07/2018 – 09/2020

Fanap (Tehran)

- Led ERP supply chain module deployment & data migration across MIDHCO Mining holdings, streamlining processes and data systems for 7,000+ employees in Iran's largest IT project "MIDRP".

Shareholder & Project Coordinator

2012 – present

Sirjan Voltage (S.V.Co)

- Enhancing contract profitability analysis, leading to a refined investment strategy and a 15% improvement in project ROI on average.

EDUCATION

Master's in Technology & Engineering Management

Polytechnic University of Catalonia-BarcelonaTech

09/2020 – 06/2022


- Master Thesis: "How chatbots are used in recruitment and selection practices?" with the aim to analyze the HR procedures to recruit best-fitting candidates by using conversational agents and Google DialogFlow. Grade: 9.5/10

B.Sc. Metallurgy & Materials Engineering

Ferdowsi University of Mashhad

09/2012 – 01/2017

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 BabakBar

SKILLS

Core Tech Stack:

◦ Programming & Frameworks:

Python, R, C#, ASP.NET, Angular, Google Cloud Services

◦ AI & ML:

NLP-LLMs, Computer Vision, MLOps

◦ Software Development:

Full-stack development, UI/UX design, API integrations

◦ Database & Server Management:

SQL, Server migration, Data Architecture

◦ SAP Modules:

PP, IBP, APO, ABAP

Development & Operations:

◦ Project Management: Agile, SDLC methodologies

◦ Tools & Platforms: Git, Jira, Tableau, Docker,

HuggingFace, Roboflow, Google Vertex AI, OpenAI API

◦ Infrastructure: Linux, DevOps, CI/CD, REST APIs

Languages:


English (C1), Spanish (B1), German (A1), Persian (Native)


PUBLICATION

Barghi, B., Gallardo, E., & Fernandez, V. (2022). An Overview of Chatbots Usage in Recruitment and Selection Practices. In MCIS 2022 Proceedings (No. 7). <https://aisel.aisnet.org/mcis2022/7> – Presented at ItAIS and MCIS 2022 Conference, in Italy on October 14th 2022.

SAMPLE PROJECTS

Smart Auto Spend Tracker

AI-powered tool for real-time expense transaction tracking across accounts with Google Vertex AI 'Gemini Pro', featuring multi-currency and language support. 

Damm Company Analysis (Distributor leader in Europe)
Various result-oriented analyses ranging from Exploratory, RFM & Basket analysis to drive strategic decisions. 

[+15 more projects...](#) For a detailed view, please visit my GitHub

INTERESTS

- Gaming
- Basketball
- Books & Podcasts
- Open Source Contribution