

# Mohamad Amin Al Hajj

AI Development Manager and Senior AI Specialist | Generative AI Solution Architect

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## Profile

Results-driven AI leader with 5+ years of experience delivering production AI across industrial domains. Strong in Generative AI, RAG, NLP, OCR, predictive analytics, and decision-support systems across Azure, AWS, and on-prem environments. Known for combining architecture depth, hands-on delivery, stakeholder alignment, and measurable business impact.

## Selected Impact

- Launched SKF's first customer-facing GenAI conversational application and reduced response time from hours or weeks to 28 seconds on average.
- Scaled a production assistant processing more than 100 thousand external queries per month.
- Freed 12% of expert time through fine-tuned LLM workflows and knowledge retrieval systems.
- Improved optimized alternatives accuracy by 35% through AI-driven recommendation and optimization logic.
- Leads a team of 5 SMEs and supports 17 core stakeholders across AI delivery and adoption.

## Professional Experience

Oct 2025 - Present | SKF BV | AI Development Manager and Senior AI Specialist

- Leads the AI Development Team, mentoring 5 SMEs across AI engineering and data science.
- Owns successful delivery of AI initiatives, stakeholder communication, roadmaps, and team development.
- Drives best practices in MLOps, delivery process improvement, and AI community building.

2023 - Present | SKF BV | Senior AI Specialist and Team Lead

- Led enterprise GenAI chatbot solutions, reference architectures, and AI governance structures.
- Built and deployed RAG assistants using Azure OpenAI, LangChain, Azure AI Search, and Azure Functions.
- Collaborated across product, engineering, data, and security while supporting internal training on Transformers.

2020 - 2023 | SKF BV | AI Specialist

- Developed regression, forecasting, recommendation, and optimization systems used in software applications.
- Built NLP-driven market intelligence pipelines and contributed to data fusion and condition monitoring work.

2019 | SKF GmbH and Politecnico di Torino | Research Intern

- Worked on condition-based monitoring for robotic gearboxes using ML for vibration analysis and anomaly detection.

## Core Skills

**Generative AI and LLMs:** RAG, prompt engineering, fine-tuning, evaluation, guardrails, LLMOps.

**Platforms:** Azure OpenAI, Azure AI Search, Azure Functions, AWS Lambda, Databricks, MLflow, Pinecone, Docker.

**Engineering:** Python, C#, SQL, CI/CD, GitHub, Spark, Snowflake, Power BI.

**Leadership:** stakeholder management, roadmapping, coaching, AI governance, delivery ownership.

## Education, Certifications, and Research

M.Sc. Mechatronics Engineering, Politecnico di Torino | B.Sc. Mechanical Engineering, Politecnico di Torino.

Certifications include SAFe 5 Practitioner, PRINCE2 Foundation, Manage Lead Coach, and The Fresh Connection.

Publication: Condition-Based Monitoring on High-Precision Gearbox for Robotic Applications. Patents credited: US2024139754A1 and US2024192085A1.

## Languages

English and Arabic bilingual | Italian professional | Dutch spoken professional communication | French beginner