

Nick Ashouri

LLM Engineer & BI Developer

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PROFILE

LLM Engineer and BI Developer with 5 years building production AI and data systems in the Microsoft Azure stack inside a German healthcare company. Built and deployed an Azure Functions application using GPT-4.1 and LangChain that automates document classification, indexing, and case summarisation against an Enaio DMS — processing approximately 100 medical documents per day at 85% accuracy, reducing per-document handling time from 30 minutes to seconds. Designed and maintain 20+ Power BI dashboards across 8 departments integrating Navision ERP, Enaio DMS, and Microsoft HR. Author on five peer-reviewed healthcare publications (1 published, 4 under review), comfortable bridging clinical domain requirements and data infrastructure. Open to AI Engineering, Data Science, and ML Engineering roles in Germany, the Netherlands, and Switzerland.

WORK EXPERIENCE

LLM Engineer & BI Developer

January 2022 – Present

reha assist GmbH · Arnsberg, NRW, Germany

LLM & AI Development (2024 – Present)

- Built Azure Function App (GPT-4.1, LangChain, Azure OpenAI Service) to automate Enaio DMS document workflows: classification, indexing, and case summary extraction — approximately 100 documents per day at 85% accuracy, reducing handling time from 30 minutes to under 5 seconds per document.
- Applied deliberate model selection strategy: GPT-4.1-nano for OCR pre-processing (cost efficiency), GPT-4.1 for complex multi-step reasoning on case summaries and Aktenspiegel generation — reducing API cost while maintaining accuracy.
- Currently developing document privacy filter using open-source LLM model to redact sensitive patient data before cloud LLM processing; privacy-by-design in regulated healthcare AI pipelines.
- Part of a 4-person development team; responsible for LangChain integration, Azure Functions deployment, and prompt engineering architecture.

Business Intelligence (2021 – Present)

- Designed and maintain 20+ Power BI dashboards across 8 departments (revenue, employee performance, absence management, sales analytics) used by C-level for monthly business reviews.
- Integrated Microsoft Navision ERP, Enaio DMS, and Microsoft HR into a unified cross-departmental reporting layer using DAX models and ETL pipelines.
- Automated bonus calculation process, reducing manual calculation from 3 days to an instant automated view.

Healthcare Data Science (2022 – Present)

- Corresponding author on peer-reviewed paper submitted to *Das Gesundheitswesen* (2026): effectiveness of telephone-based rehabilitation follow-up across 408 patients; functional limitation score reduced 56% (Cohen's $d = 1.37$; $p < 0.001$).
- Co-author on 4 additional healthcare publications (1 published in *Die Unfallchirurgie* Oct 2025; 3 currently under review in *BMC Health Services Research*, *Die Unfallchirurgie*, and *Zeitschrift für Gerontologie und Geriatrie*).
- Built ML classification model predicting *Nachbehandlungsempfehlungen* from ICUC pain and functional limitation scores using Python and scikit-learn.
- Bridge between clinical staff (doctors, department heads) and data infrastructure — translating domain requirements before building analytical pipelines.

Application Developer

January 2021 – December 2021

reha assist GmbH · Arnsberg, NRW, Germany

- Enaio DMS configuration and ETL workflow design; foundational Power BI reporting and data modelling.

IT Technician

August 2017 – January 2021

Tehran Municipality · Tehran, Iran

- Helpdesk lead for 1,000+ employees; achieved 15% improvement in system uptime.
- Smart City project (District 6): delivered 10% utility cost reduction; built SQL and Elasticsearch dashboards reducing reporting time by 20%.

PERSONAL PROJECTS

Options Trading Decision-Support System

2026 – Present

- Autonomous 24/7 platform for BTC/ETH options on Deribit: ML-based market regime detection (LightGBM), displacement scanner, on-chain analytics (GEX/DEX, max pain, IV surface), 4 strategy evaluators, Telegram real-time alerts.
- Deployed on Hetzner VPS with systemd process management and PostgreSQL data collection daemon storing options trades every 30 minutes.
- Stack: Python 3.13, LightGBM, XGBoost, PostgreSQL, PySide6.
- GitHub: github.com/nick9248/rsc_option_trading

Polymarket Copy-Trading Bot

2026 – Present

- Python bot mirroring trades from target wallets on Polymarket prediction market CLOB using EIP-712 signed blockchain transactions (POLY_PROXY signature mode).
- Multi-layer safety system: geo-verification, 10% slippage guard, near-expiry filter, genesis block protection, on-chain execution validator.
- Stack: Python, Polymarket CLOB API, Web3/EIP-712, PostgreSQL, VPS deployment.
- GitHub: github.com/nick9248/polymarket_bot

PUBLICATIONS

Long-term care of polytraumatized patients, requirements for rehabilitation management

Die Unfallchirurgie · October 2025 · Co-Author · **Published**

Detecting disorders early in the healing process: Telephone support during the healing process using the ICUC score

BMC Health Services Research · Co-Author · Under peer review

Effectiveness of Telephone-Based Health Visits in Musculoskeletal Rehabilitation

Das Gesundheitswesen · **Corresponding Author** · Under peer review

Langzeitbetreuung polytraumatisierter Patienten — Teil 2

Die Unfallchirurgie · Co-Author · Under peer review

Pflegeberatung – Stärken und Schwächen

Zeitschrift für Gerontologie und Geriatrie · Co-Author · Under peer review

EDUCATION

Master of Science, Computer Science

2019 – Present

Bergische Universität Wuppertal · Wuppertal, Germany

Focus: Data Analysis, Mathematics, Financial Mathematics · Pursued alongside full-time employment · 3 courses remaining

Bachelor of Science, Computer Science

2013 – 2018

Kharazmi University · Tehran, Iran

Focus: Machine Learning, Data Analysis, Mathematics

SKILLS

LLM / AI: GPT-4.1, GPT-4.1-nano, LangChain, Azure OpenAI Service, RAG, Prompt Engineering, NLP, Document AI

Business Intelligence: Microsoft Power BI, DAX, Power Query, ETL, data modelling, Navision ERP

Programming: Python 3.13, SQL (CTEs, joins), PostgreSQL, Git, REST APIs

Machine Learning: LightGBM, XGBoost, scikit-learn, logistic regression, statistical analysis

Cloud / Infra: Azure Functions, Azure OpenAI, Hetzner VPS, systemd, Nginx

Other: Enaio DMS, Web3/EIP-712, Telegram Bot API, PySide6

LANGUAGES

- **English** — Professional working proficiency
- **German** — B1 TELC certificate (actively advancing to B2)
- **Persian (Farsi)** — Native

CERTIFICATIONS

- Claude Code in Action — Anthropic (February 2026)
- Claude Code: Software Engineering with GenAI Agents — Vanderbilt University (October 2025)
- Generative AI Automation Specialization — Vanderbilt University (December 2024)

- Agentic AI and AI Agents: A Primer for Leaders — Vanderbilt University (February 2025)
- Deploy and Maintain Power BI Assets — Microsoft (February 2025)
- Python for Data Science, AI and Development — IBM (May 2024)
- Azure AI Engineer Associate (AI-102) — In progress, target Q3 2026