

Amit Malka

amit.malka08@gmail.com | 0502609484 | [LinkedIn](#) | [GitHub](#) | [Website](#)

Profile

AI developer with strong foundation in programming and statistical analysis. Advanced expertise in LLM models and AI agent development. Combines technical proficiency with natural curiosity to build intelligent systems that transform complex data into actionable insights.

Experience & Projects

FINANCIAL RAG SYSTEM | AI DEVELOPMENT COURSE FINAL PROJECT | [LINK](#)

- Architected metadata-driven hybrid RAG agent for SEC 10Q financial document with vector + graph retrieval.
- Engineered multi-modal pipeline processing text, tables, and charts using LlamaIndex and advanced parsing.
- Implemented dual architecture integrating ChromaDB vector store with Neo4j graph database
- Developed interactive Gradio interface with configurable controls for real-time retrieval optimization.

GENOMIC DATA ANALYSIS PROJECT | MIGAL RESEARCH INSTITUTE | [LINK](#)

- Architected end-to-end data pipeline for single-cell RNA sequencing analysis.
- Built scalable computational workflows using R programming for high-dimensional data
- Engineered custom algorithms for data normalization, dimensionality reduction, and cluster analysis
- Created comprehensive documentation and modular code structure for future iteration and knowledge transfer

LAB TECHNICIAN & SHIFT MANAGER | MYHERITAGE | 5/2020 – 10/2021

- Collaborated on MVP deployment of critical laboratory infrastructure
- Optimized throughput by identifying bottlenecks and streamlining workflow processes
- Led cross-functional team operations, prioritizing tasks and allocating resources for maximum efficiency
- Demonstrated agile adaptation by returning to support scale-up operations during peak demand periods

Education

AI DEVELOPMENT COURSE | BEN-GURION UNIVERSITY & THE INSTITUT | 6/2025 – 9/2025

- Advanced curriculum covering LLMs, RAG systems, MCP, and AI Agents.
- Hands-on development of intelligent agents with memory, logic, and reasoning capabilities.

BACHELOR OF BIOTECHNOLOGY-BIO DATA | TEL HAI COLLEGE (GPA 85) | 10/2020 – 10/2023

- Combined curriculum of biological sciences with specialized data analysis coursework
- Developed strong foundation in statistical methods and computational biology
- Key coursework: Statistics, Programming for Data Analysis, Computational Biology, Advanced Python programming
- Gained hands-on experience with bioinformatics tools and statistical analysis of complex biological datasets

SKILLS & ABILITIES

- **Programming:** Python (Advanced), R, SQL, JavaScript, TypeScript
- **AI/ML:** LLMs, RAG Systems, AI Agents, Prompt Engineering, Claude code, Cursor
- **Data Analysis:** Pandas, NumPy, Statistical Analysis, Data Visualization
- **AI Development:** Vector DBs, Embedding Models, Multi-modal AI, GraphDB.
- **Soft Skills:** Technical Skills & Core Competencies, Team Collaboration, Fast Learner & Adaptable

Volunteering & military service

RESERVE COMBAT SOLDIER AND COMMANDER | 2017 - NOW

- Logistics Commander – managed and coordinated logistics operations.
- ~300 reserve duty days since October 7, 2023

MILITARY SERVICE | GIVATI | 2014 - 2017

- Managed logistics for 120 soldiers in dynamic operational environments
- Developed leadership skills through high-pressure tactical missions
- Coordinated team activities, fostering collaboration and efficiency

VOLUNTEER SOCIAL MEDIA ADMINISTRATOR | "Dor BeMil" ORGANIZATION | 2024 - NOW

Manage the organization's Twitter account, creating and scheduling content to support the mission of promoting equal military service in Israel