

DOTAN BECK

Data Scientist & Solutions Developer

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Professional Summary:

Dynamic Data Scientist and Solutions Developer with extensive experience in full lifecycle projects at ECO-OS. Expert in Large Language Models (LLMs) workflows with Retrieval-Augmented Generation (RAG) as well as solution development with Angular, .NET, MSSQL, and AWS. Passionate about solving real-world problems using Generative AI and creating great applications.

Professional Experience:

2022 – PRESENT: Head Data Scientist & Programmer – ECO-OS

Leading the design, implementation, development, and deployment of numerous components and features in Angular (JS) and .NET (C#) web applications, including innovative features using LLMs technologies.

- Developed a framework utilizing LLMs and RAG technologies with AWS Bedrock that reduced the time clients spend responding to textual regulatory questions by over 90%.
- Utilized generative AI to create risk analysis and provide decarbonization insights and alternatives for our clients.
- Designed and implemented an algorithm for core calculations as well as end-of-year projections of clients' environmental impact with deviations typically not exceeding $\pm 1.5\%$, resulting in significant savings for clients.
- Engineered high-availability, scalable infrastructure cloud-based in AWS to support business growth.
- Optimized SQL queries in MSSQL, resulting in a 40% decrease in calculation time.
- Leading a small programming team, including training of 3 developers.

2022 – 2023: Programmer – Schestowitz Honors Program | Reichman university

- Developed an LLM-based web application for the Master-chef brand, assisting users in creating meals with available ingredients while promoting Master-chef products.

Areas Of Expertise:

- **Professional Skills:** Independent learner, thinker, team player, self-motivated, proactive, big picture.
- **Technical Skills:** Proficient in Python, Langchain, RAG, OpenAI, and Perplexity API, along with web development using Angular (JS) and .NET (C#) environments, and skilled in SQL, HTML, CSS, and SCSS and AWS.

Education:

- *Ongoing - M.Sc. in Computer Science* | open university
- *2020-2023 - B.Sc. in Computer Science & Entrepreneurship* | GPA 90 | Reichman University (IDC)

Military Experience:

- Intelligence unit.

Languages:

- Hebrew – native
- English – fluent

Other:

- World-winning nature photographer.
- Former handball player in the Israeli national youth team.