42 Al Agent-Based Process Automation Proof-of-Concept

Industry	Al Consulting	Client	Al Consulting Client
Role	Al Product Manager/Al Solution Architect		
Key Result	The practical applicability and value of automating a Produleading to negotiations for full-scale implementation.	ct Developme	nt Process with AI agents were successfully demonstrated,

Situation Task **Action** Result **Detailed Target Process Modeling: I meticulously** A Working Proof-of-Concept (POC) with Agent-In my role as a Product Manager, my The client faced serious problems modeled and aligned with the client the target state of Based Architecture: The practical applicability in their Product Development task was to demonstrate to the the Product Development Process, mapping complex and value of automating the Product Development routes, iterations, and interactions. Process (PDP) – the process for client the value of automating a Process based on AI agents were successfully **Identification of AI Agent Automation Fragments:** demonstrated. critical Product Development preparing new confectionery Based on the modeled process, specific fragments and **Confirmed Potential for Process Acceleration:** activities that could be effectively automated with products for the European market, Process using artificial intelligence The POC showed the potential to reduce product intelligent agents were identified. as well as modernizing, changing, agents. The goal was to show the preparation time by up to 5 times, which is critical **Development of Technical Specifications for Al** for the client's market competitiveness. Agents: Detailed technical specifications were or retiring existing products. This potential for significant time prepared, describing the logic, functions, interactions, Foundation for Process Analytics: The project process was extremely lengthy and reduction, increased predictability, and requirements for each Al agent. demonstrated the possibility of creating an Selection and Application of Advanced analytical system that allows tracking each unpredictable due to its complex, and improved transparency through Technologies: For the POC, leading frameworks for product at every stage of development, increasing multi-agent systems were used: Crew Al and MS iterative nature and numerous analytics. The final result was to be process transparency and manageability. Autogen. Client Conviction: The client was impressed with interactions with various enterprise a working Proof-of-Concept (POC) Development of a RAG (Retrieval-Augmented the demonstrated capabilities, which led to Generation) System: In the second phase of the functions. This led to market entry that would confirm the viability and negotiations for a full-scale implementation of the project, I developed a functional RAG system for storing delays and difficulties in managing effectiveness of this approach. and retrieving the organization's knowledge about the developed approach. **Technical Foundation for Scaling:** The developed the product lifecycle. POC Demonstration: I organized and conducted a architectural solutions and RAG system laid a demonstration of the working Proof-of-Concept, solid technical foundation for the further showcasing the automated process fragments and the development and scaling of the system within the capabilities of the RAG system. organization.