



PwC and Microsoft

GenAI Led Assistants for Data Modernisation Delivery

The Data Modelling Assistant takes the KPI matrix document as input, along with client-specific requirements, to recommend a data model. The assistant can generate data models in different modelling techniques such as Inmon, Kimball, Data Vault and custom. Once approved and iterated on with a human counterpart, it also creates a mapping document for the target state. Data model is a critical document and dependency for any development/build activities to start.

The Build assistant takes the data models including the mapping document and produce code to build the solution according to the specifications. This includes code for data sourcing, movement, cleansing, transformation, AI and ML models and data visualisation through reports. The Agents can be multiplied as required to speed up the process.

Problems it solves and how it solves them:

- **Complexity Reduction:** Simplifies the complex process of data modeling and data engineering builds
- **Consistency:** Ensures consistent application of business rules and requirements in the data model.
- **Accurate and Correct Code:** Self-correcting components ensure the correct code is generated.
- **Build Quality:** Ensures consistently high-quality outcomes across agents while maintaining best practice coding standards throughout.
- **Parallel Build Activities:** Enables build and code generation to be completed in parallel, leading to a quicker validation and feedback process.
- **Time Efficiency:** Speeds up the modelling and build process, allowing for quicker iterations and approvals.

Client benefits:



Automated Data Modelling: Streamlines the data modelling process by generating data models based on requirements and data modelling approach.



Comprehensive Mapping: Provides a detailed mapping document for the target state, aiding in implementation and build.



Automated Code Generation: Accelerate Data Engineering build process by generating code based on requirements and data modelling outputs.

Key Questions:

- Have you considered how generative AI could streamline and enhance your data modeling process, reducing complexity and accelerating delivery while ensuring consistency and accuracy?
- How much more efficient and accurate could your data engineering processes become if you leveraged generative AI to simplify builds, ensure high-quality code, and enable parallel development activities?

Why PwC is the right Partner

We successfully implemented our solution for a large insurance provider aiming to modernise their data platform alongside a source system change. By demonstrating the solution across over 600 reports from various reporting tools, we traced the flow of data through the data platform, from the source system to the reports. This led to a significant reduction of up to 81% in the time required to complete delivery tasks. Additionally, the generative AI solution provided 1.2 times more coverage than manual methods.

Target Audiences:

- CDO/CIO
- Enterprise Data Architects
- Data Engineers
- Solution Architects
- Business Intelligence Managers
- IT Project Managers
- Data Analysts



Industry Focus:

The Discovery Assistant is a horizontal application that is applicable across various industries where data management, reporting, and compliance are critical.

Contact Us:

To learn more about PwC's GenAI Led Assistants for Data Modernisation Delivery, please contact:



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