

From Concept to Implementation: A Governed AI Quality Analytics Assistant

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WHY THIS MATTERS

- Teams often know the quality question not always the right statistical chart.
- Manual data setup and chart selection can be complex and consumes time.
- Delays between question and analysis can slow improvement.

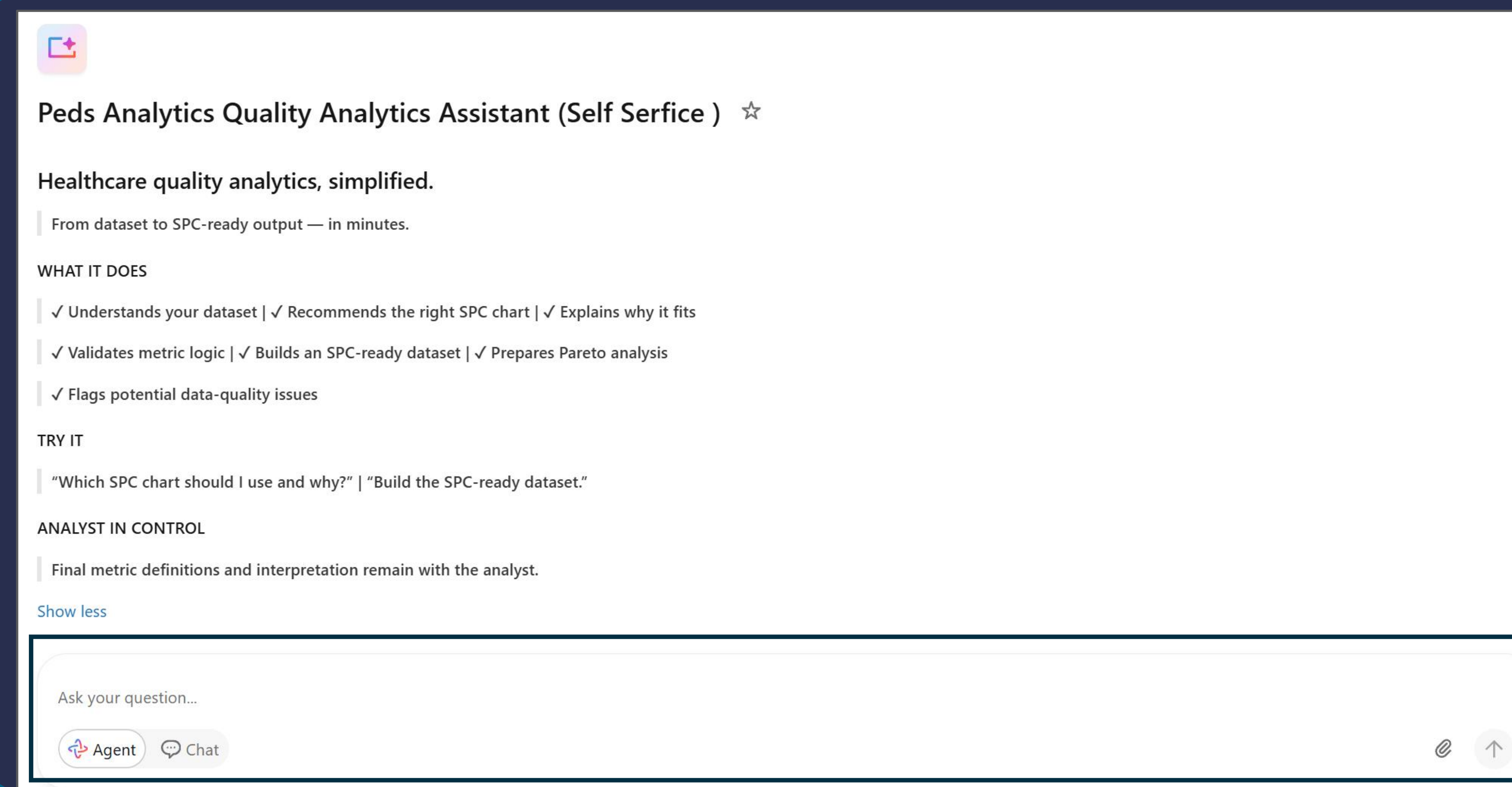
IMPLEMENTED SOLUTION

- A live self-service assistant is implemented inside governed VUMC Databricks platform
- Metadata analysis, chart recommendation, and conversational refinement are combined in one workflow.
- Standardized outputs support downstream reporting and visualization.

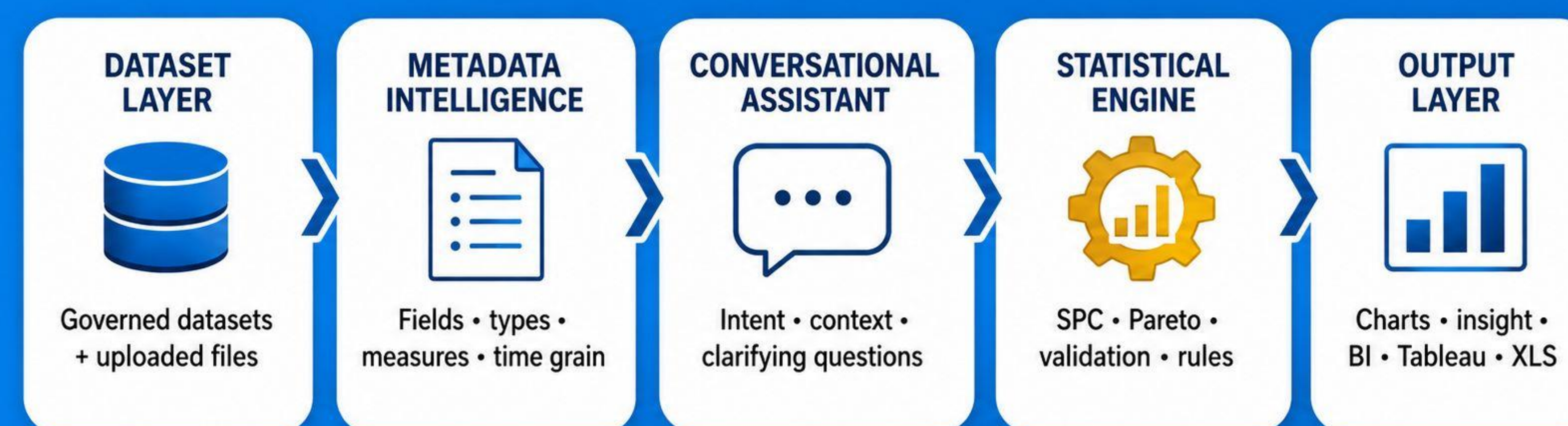
WHAT THE ASSISTANT DOES

- Understands dataset metadata and field structure.
- Analyzes data and checks for data quality.
- Recommends supported SPC and quality analyses.
- Narrows to the right chart through follow-up questions.
- Builds reusable BI and spreadsheet outputs.

REAL ASSISTANT — IMPLEMENTED SELF-SERVICE EXPERIENCE



GOVERNED IMPLEMENTATION ARCHITECTURE



THE DATASET DOES NOT LEAVE THE GOVERNED ENVIRONMENT



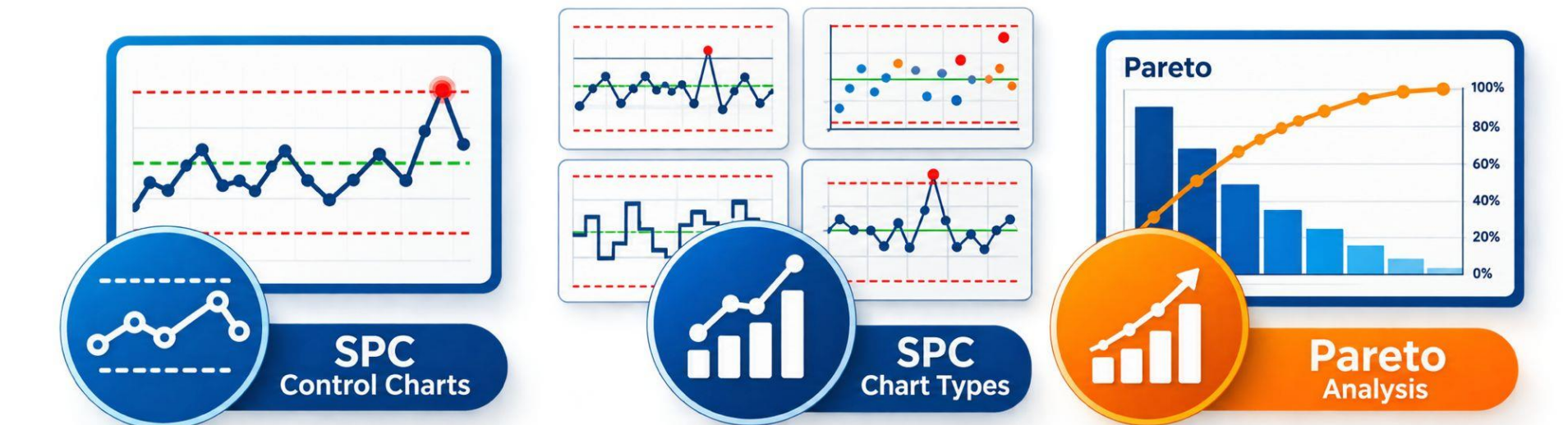
WHO IT HELPS



SCAN FOR DEMO



OUTPUT TYPES



CODE READY INTEGRATION



FUTURE DEVELOPMENT

- More statistical methods and chart types.
- Richer conversational guidance and explainability.
- Reusable workflows for common quality questions.
- Proactive monitoring, cross-dataset analysis, and interacting with other assistants.

PRESENTED BY



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