

# AI-Assisted Semantic Model Optimization

Inspired by [a community BPA workflow](#) - Tabular Editor finds what's wrong. A GitHub Copilot agent fixes it - directly in your live Power BI model, with your approval.

## Tabular Editor Finds the Issues

71 Best Practice Analyzer rules scan your semantic model for DAX performance, naming, formatting, and maintenance violations

## Copilot Agent Fixes Them

The AI agent reviews each Tabular Editor finding, reasons about the fix, and applies it to your live model - with your approval before every write

## From Hours to Minutes

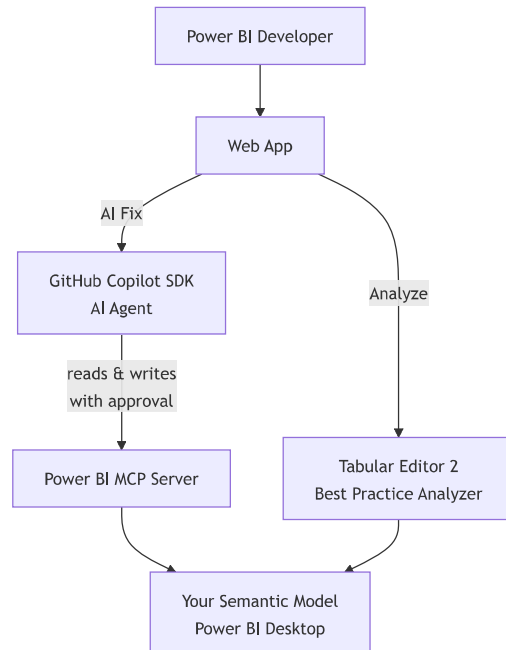
A single guided workflow replaces copying between 4+ tools: analyze, fix, verify - one window

## Built-in DAX Workspace

Write DAX or describe what you need in plain English. Choose your agent model - GPT, Claude, Codex

**Repo:** [github.com/AlahmadiQ8/copilot-sdk-challenge](https://github.com/AlahmadiQ8/copilot-sdk-challenge) • **Demo:** [youtu.be/xYDh9zKUyOI](https://youtu.be/xYDh9zKUyOI)

# How It Works



## The workflow:

1. **Connect** to your Power BI Desktop model
2. **Analyze** - 71 best practice rules run instantly
3. **Fix** - AI agent reads your model, proposes a fix, waits for your OK
4. **Verify** - rerun analysis to confirm

## Built on Microsoft ecosystem:

- GitHub Copilot SDK - enterprise AI agent
- Power BI Modeling MCP Server
- Tabular Editor 2 - BPA engine
- Power BI Desktop

All sessions persisted in SQLite for full auditability.