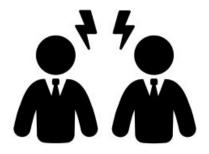# Mage

Chandramita Dutta
Industry Practitioner

Issue: Ineffective Collaboration Between Data Scientists and Stakeholders at Company X

Company X grapples with a communication breakdown between data scientists and stakeholders (PMs, managers,etc). Collaborative efforts are time consuming and inefficient.

- Stakeholders rely on spreadsheets, lack coding confidence.
- Constant back-and-forth for minor changes hampers collaboration.
- Real-time collaboration in meetings is difficult, leading to time-consuming presentations.

Solution: Integration of Mage tools – table and plot with Notebook Environment

- **Seamless integration** with data scientists' notebook environment.

- Allows stakeholders to interact with presented work, make small changes using GUI widgets.

- UI resembles spreadsheets and visual tools, enhancing stakeholder comfort.

- Translated code tracks stakeholder changes, integrating seamlessly with data scientists' code.

- Eliminates the need for data scientists to redo work, saving valuable time and enhancing productivity.

Potential roadblocks

- The **restricted** set of **available actions** in the tools increases the risk of **conflicts** between code and GUI, requiring expert **troubleshooters**.
- For meaningful collaboration, more **multitool interactions** like table-code, table-viz, viz-viz, viz-code might be needed
- Risk of generating **redundant and obsolete code**, lowering overall **code quality**.
- Ideal for **data storytelling**, not suitable for complex programming tasks; may **frustrate** programmers.