Results

Explorability

Cell-output correspondences

Incorporating inspection code without clutter

Clarity

Markdown cells

Cell-based inspection

Live programming visualizations that

Saving outputs

work inside loops and functions

Use of Al

Reading code

Running code

Al Integration with validation support

Tactics for Quality Attributes & Al Validation Strategies

Design Opportunities

Key Contributions

An observational study of 20 scientific users of Jupyter notebooks showing: