

Brief Report

Report: Comparing LLM Review and Pylint Static Analysis

Tools Used:

Pylint (algorithmic static analysis)

GitHub Copilot (LLM-powered coding assistant)

Process:

Ran pylint on PhotoImporter.py and fixed all major issues.

Used Copilot to review the same file.

Findings:

Both tools identified trailing whitespace as a remaining issue.

Pylint focused on objective, rule-based issues (line length, naming, whitespace).

Copilot provided additional subjective feedback (suggested logging, error handling, praised structure).

Running Copilot review twice produced consistent results, with minor variation in suggestions.

Conclusion:

Pylint is excellent for enforcing coding standards and catching objective issues.

LLM assistants add value by providing context-aware suggestions and best practices.

Using both tools together leads to higher code quality and more maintainable code.