

Automated Code Review & Quality Assurance Tool

Project Idea:

A Tool that automatically reviews code and checks for:

- Bad Practices, Duplication, unused variables
- Style Violations
- Design Principles violations (Breaking SOLID, poor modularization)
- Maintainability metrics (Complexity, code coverage)
- Security flaws (SQL Injection, Unsafe APIs)

The tool should integrate with Github/GitLab so that every time a developer pushes code, the system reviews it and leaves comments

AI Aspect: Use a small ML model or LLM API to provide natural language explanations.