

AI Code Reviewer Report - PYTHON

Code Snippet:

```
import math■
import statistics■
■
■
def calculate_area(radius: float) -> float:■
    """Calculate the area of a circle given its radius."""■
    if radius <= 0:■
        return 0.0■
    return math.pi * radius * radius■
■
■
def calculate_statistics(numbers: list[int]) -> dict:■
    """Return basic statistics (mean, median, variance)."""■
    if not numbers:■
        return {"mean": 0, "median": 0, "variance": 0}■
■
    return {■
        "mean": statistics.mean(numbers),■
        "median": statistics.median(numbers),■
        "variance": statistics.variance(numbers),■
    }■
■
■
class Student:■
    """Represents a student with grades."""■
■
    def __init__(self, name: str, grades: list[int]):■
        self.name = name■
        self.grades = grades■
■
    def average_grade(self) -> float:■
        """Return the student's average grade."""■
        if not self.grades:■
            return 0.0■
        return statistics.mean(self.grades)■
■
    def performance(self) -> str:■
        """Classify student performance based on average grade."""■
        avg = self.average_grade()■
        if avg >= 75:■
            return "Excellent"■
        elif avg >= 50:■
            return "Good"■
        else:■
            return "Needs Improvement"■
```