## **Al Code Review Report**

Language: python

Generated: Thu Aug 28 13:45:06 2025

## **Submitted Code:**

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 >=
T5: return "Excellent" elif avg >= 50: return "Good" else: return "Needs
Improvement"

## Al Review:

This is a placeholder Al review. Integrate your real analysis output here.