VERTEX CODE ANALYSIS

INTELLIGENT CODE HINTS WITH EASY ACCESS

💡 Needs explanation

TEAM “ATTIC ENGINEERS”


It is 2023

There exist AI-based code completion tools

But no AI-based code analysers

VERTEX CODE ANALYSIS

Our idea

use language models from Google for static code analysis

integrate with Visual Studio Code

create a web demo for anyone to try

VERTEX CODE ANALYSIS

BEYOND SIMPLE LINTERS

Conventional code analysis:

> style checking

> type checking

> security issues (rule-based)

Pylint

PyQ

flake8

Bandit

AI-based code analysis:

> find potential bugs, based on syntax and semantics

> suggest code optimisations

> promote best coding practices

See in action — Visual Studio Code

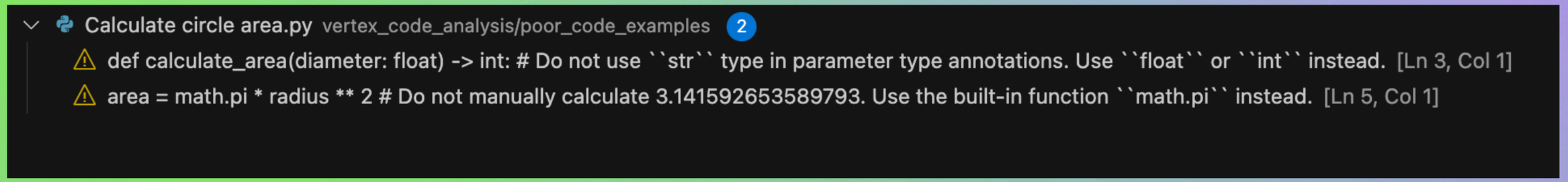
```python
from math import *

def calculate_area(diameter: str) -> int:
    radius = diameter / 2
    area = 3.141592653589793 * radius ** 2
    return area

```

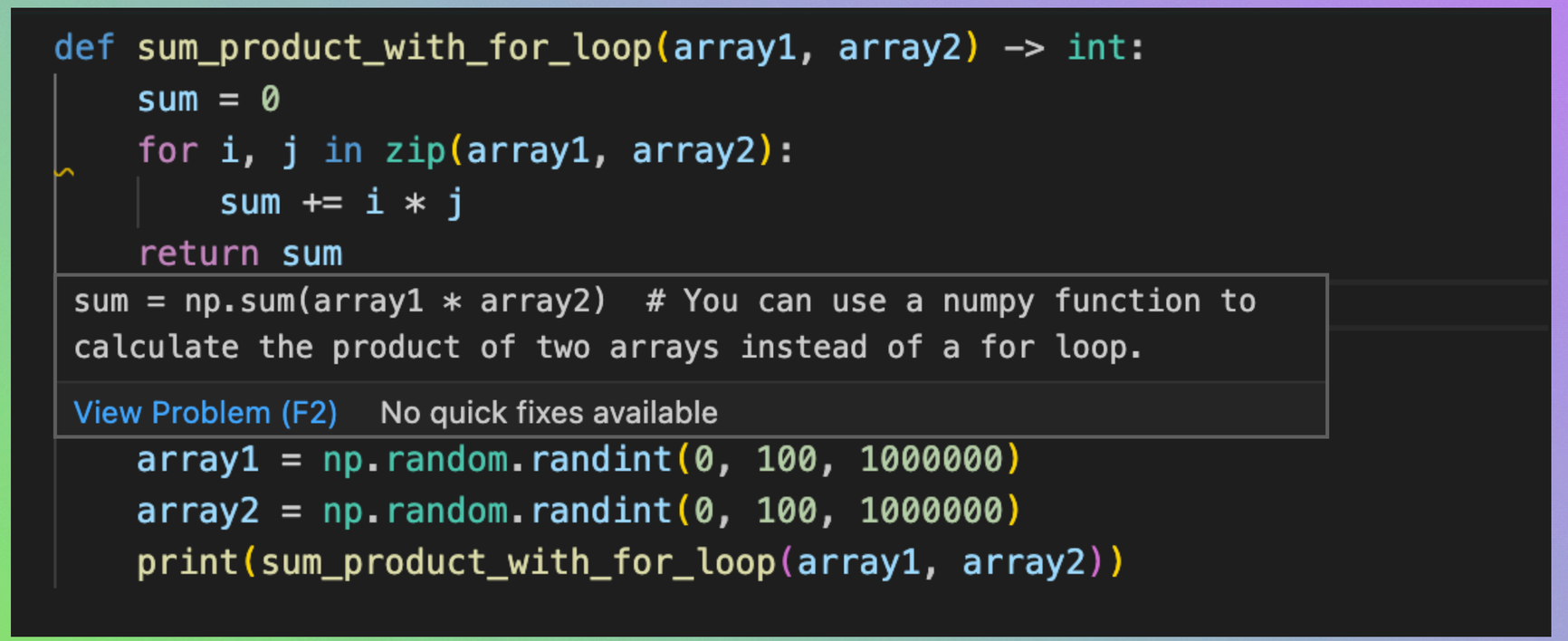
What is wrong with this code?

AI can tell you that



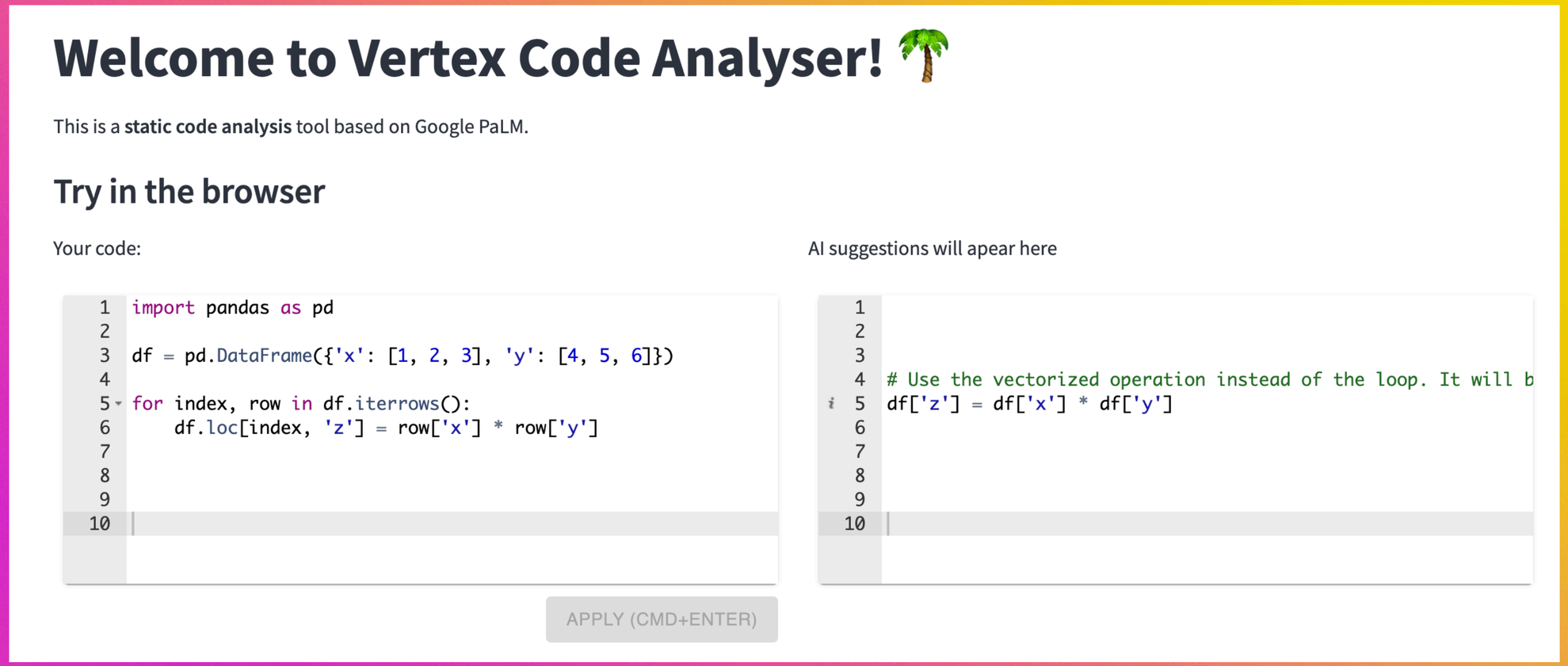
See in action — Visual Studio Code

Get useful advice even when you don't expect it.



See in action — web demo

🪄 vertex-code-analysis.streamlit.app 🪄



VERTEX CODE ANALYSIS

Why do we believe in this

> Organisations increasingly adopt subscription-based productivity apps for developers.

> Individuals are also ready to pay small fees for bigger performance boost.

> Writing code is just part of the job, not smaller than fixing and improving it.

Thank you for your attention!

🌴 **AND STAY TUNED** 🌴

Demo: vertex-code-analysis.streamlit.app
GitHub: romech/vertex-code-analysis

“Attic Engineers” team:
Roman — GitHub, LinkedIn 🇳🇱
Dainius — GitHub, LinkedIn 🇳🇱