GPTutor (🤖,🤖)

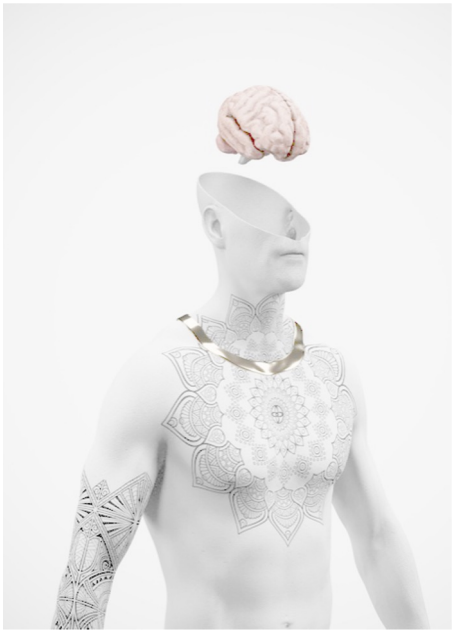
A VS Code extension for
Smart Contract understanding

About Eason

- First-year PhD Student at Carnegie Mellon University
- Study Human-Computer Interaction
- Research:
  - AI in Education
  - Natural Language Processing
  - Blockchain and Smart Contract

GPTutor x Bucket Protocol

Eason



Justa

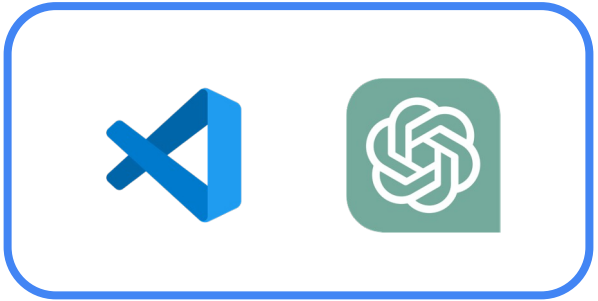
Ray

Pierce

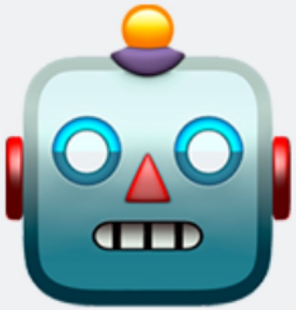
What is GPTutor?

Developer

⇧⇩



GPTutor (🤖,🤖)



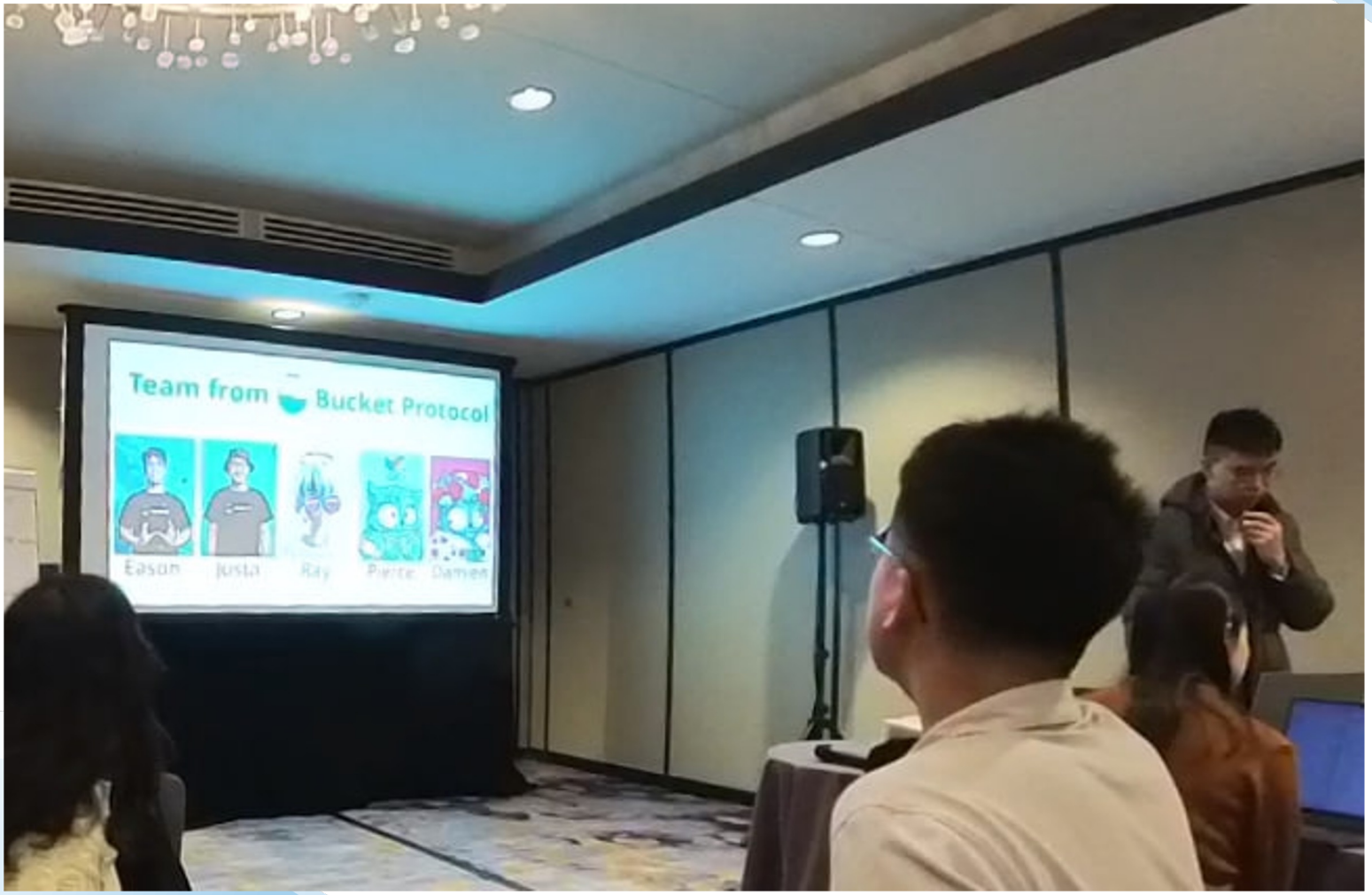
GPTutor (🤖,🤖)

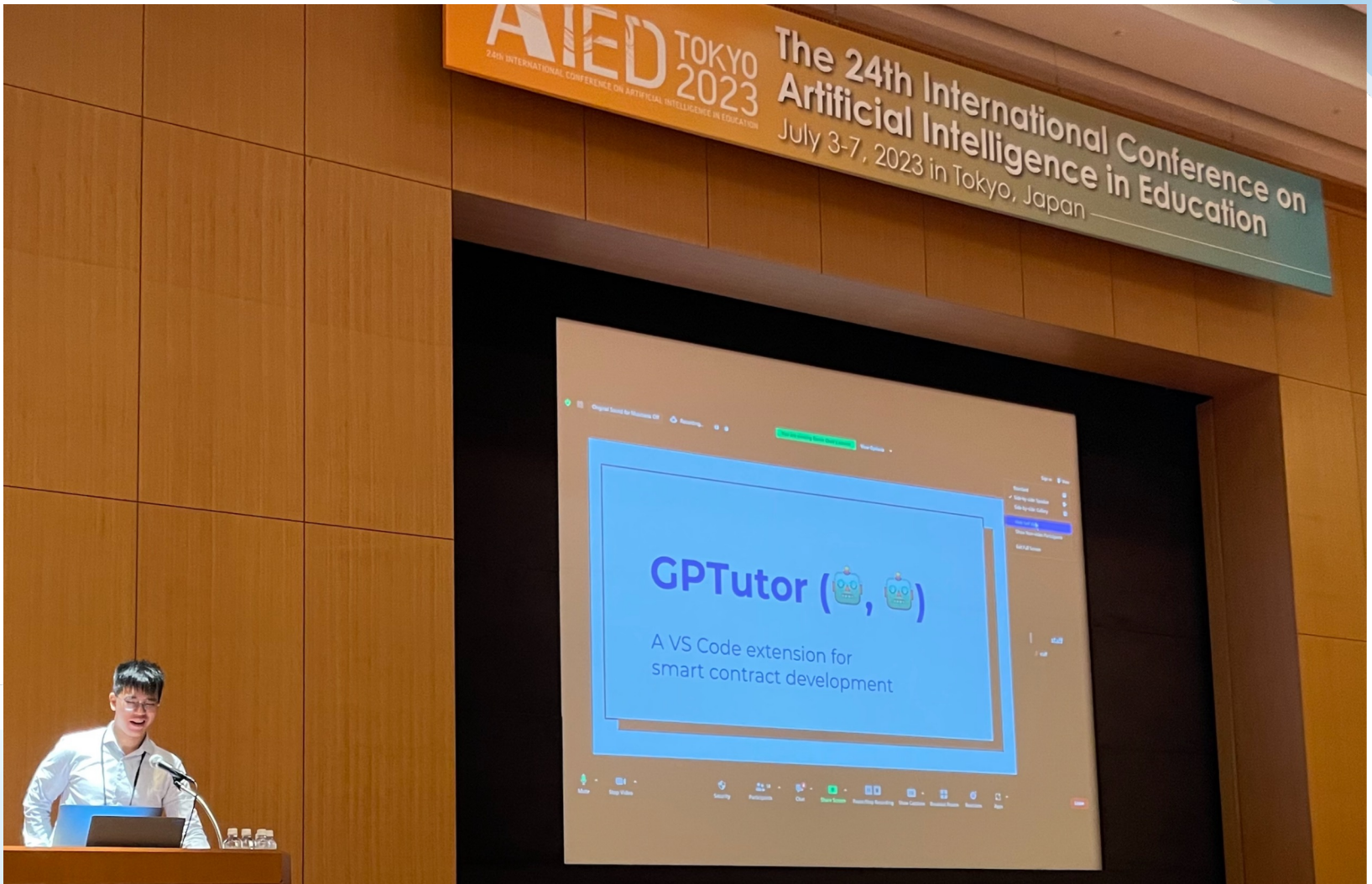
🤖 🤖 🤖 🤖 🤖 | 1,316 installs | ★★★★★ (2) | Free

A VS Code extension for AI Pair Programming and Smart Contract Development.

Install

Trouble Installing?


Team from Bucket Protocol
Eason
Justa
Ray
Pierre
Damen


AIED TOKYO 2023
24th INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE IN EDUCATION
The 24th International Conference on Artificial Intelligence in Education
July 3-7, 2023 in Tokyo, Japan
GPTutor (,)
A VS Code extension for
smart contract development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GPTutor: a ChatGPT-powered programming tool for code explanation
Contributions
Natural Language Generation in a nutshell...
Motivations
Findings
GPTutor (🤖, 🤖)
A VS Code extension for smart contract development

GPTutor: a ChatGPT-powered programming tool for code explanation

E Chen, R Huang, HS Chen, YH Tseng, LY Li

International Conference on Artificial Intelligence in Education, 2023

🤖 GPTutor

Support  Sui Move

GPTutor Workshop

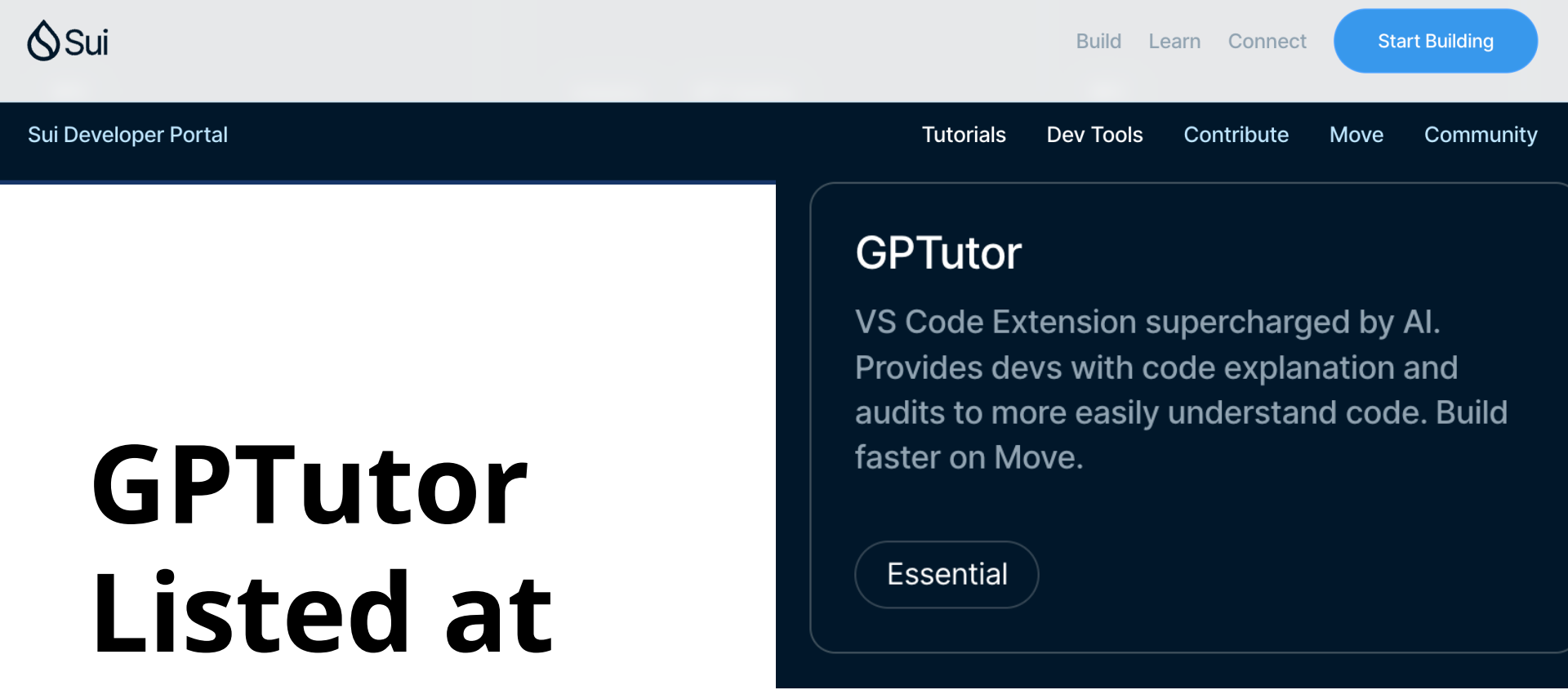
An AI tool to boost Sui-Move Development

28 JUNE 2023 2:00 (UTC+0)

Eason Chen
Co-founder of GPTutor
AI Dev at Bucket Protocol

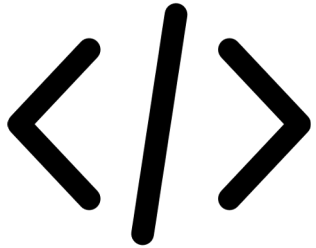
Justa
Tech Lead of Bucket Protocol
Advisor of GPTutor

Sam Blackshear
Co-founder & CTO of MystenLabs
Creator of Move

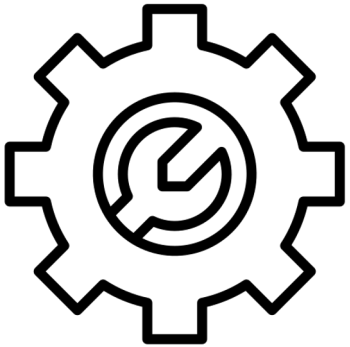


GPTutor Listed at Sui Move Developer Portal

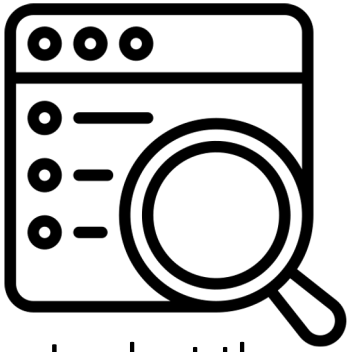
Why GPTutor?



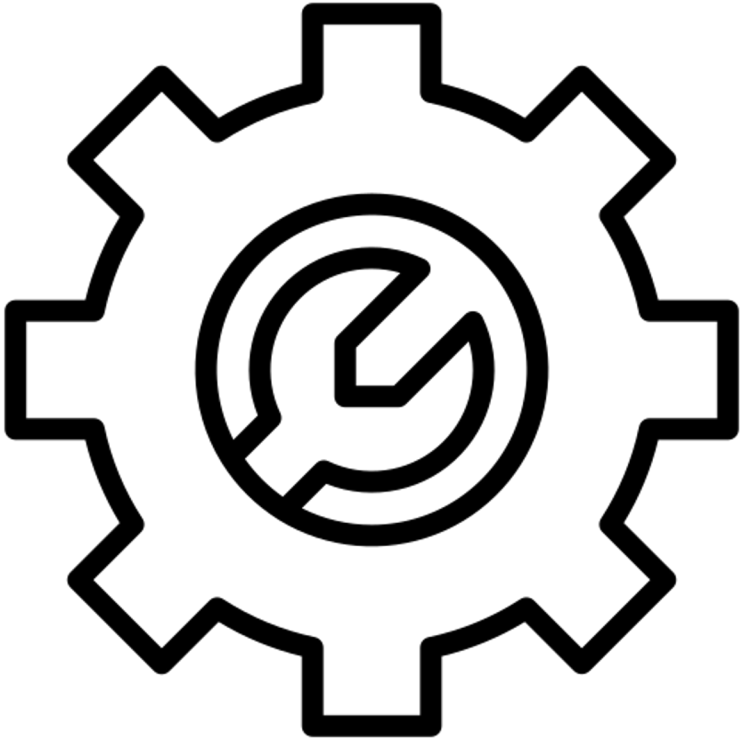
Open Source



Customizable



Look at the Source Code



Customizable


AI Pair Programming

Programming

Programming with AI

Programming

Programming with AI

Programming with AI
at Library it don’t know

幻覺

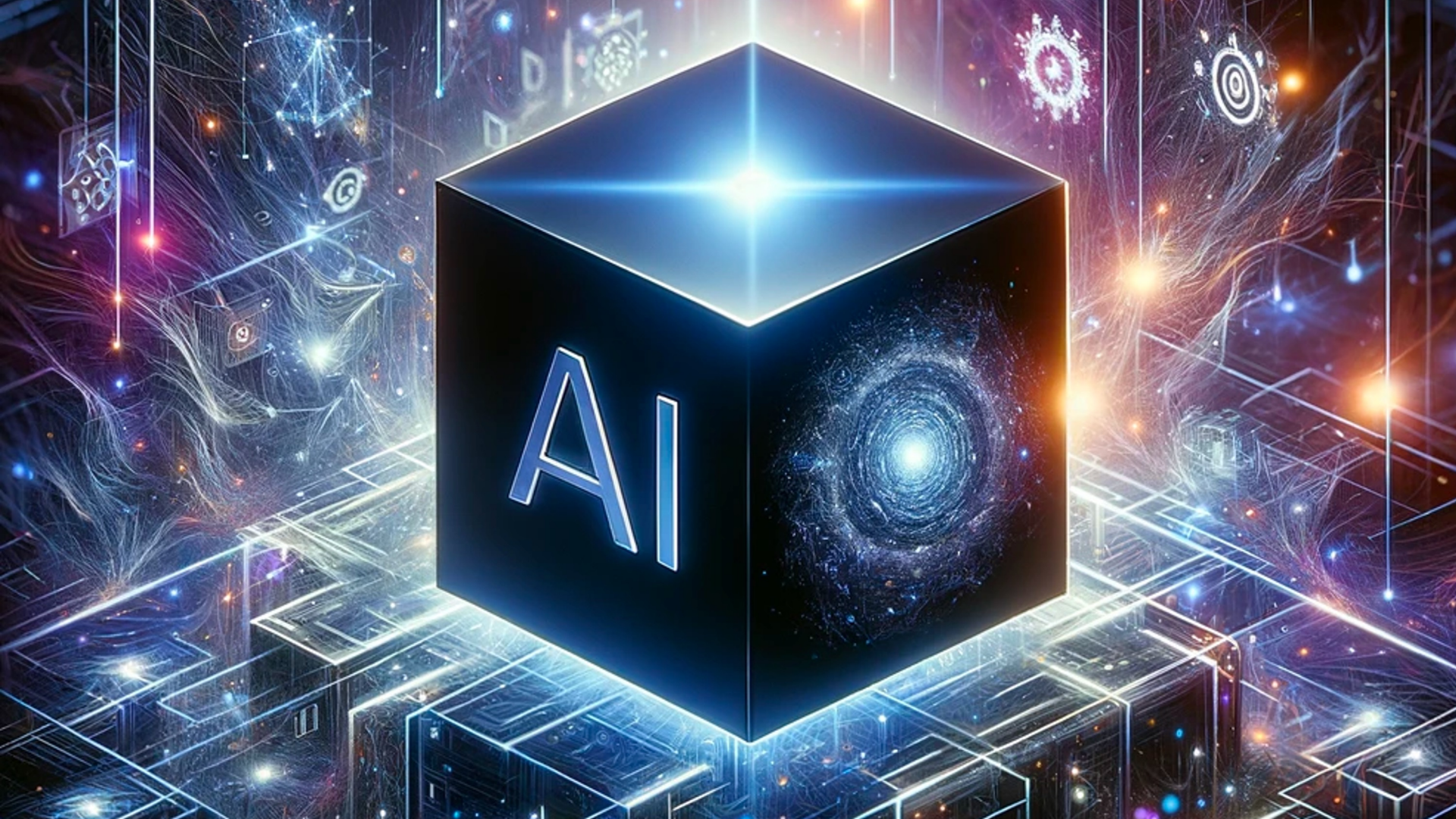
When you ask AI to handle codes beyong its training data

Coindg with AI

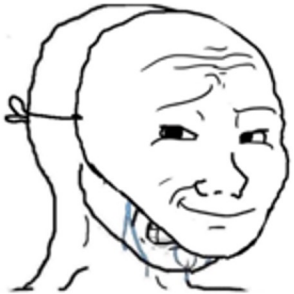
Debug the code generated by AI


GPT
Hallucination
Prompt


GPT
Prompt

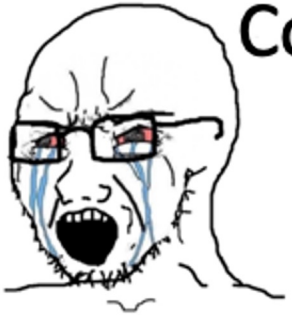

AI

User



Can you learn this library?

Copilot



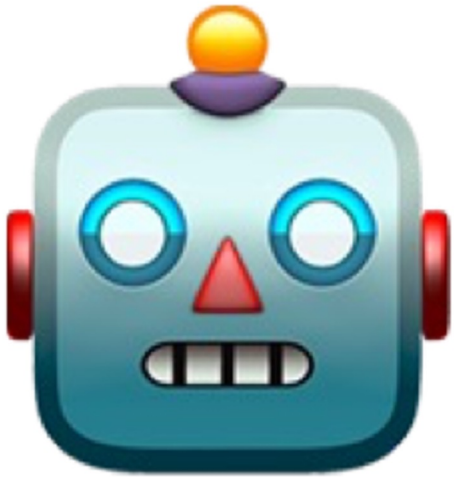
NOOOO, I CAN'T DO IT

User

Can you learn this library?

GPTutor

Yes I can. Just give me the prompt



Demo

Features:

Accurate preprocessing allows users to get result more quickly and efficiently

👩‍🏫 Explain:

Help developers understand code content and logic

📝 Comment:

Auto generated comments on the given code

🕵️ Review:

Check the given code for vulnerabilities, and give suggestions for improvement

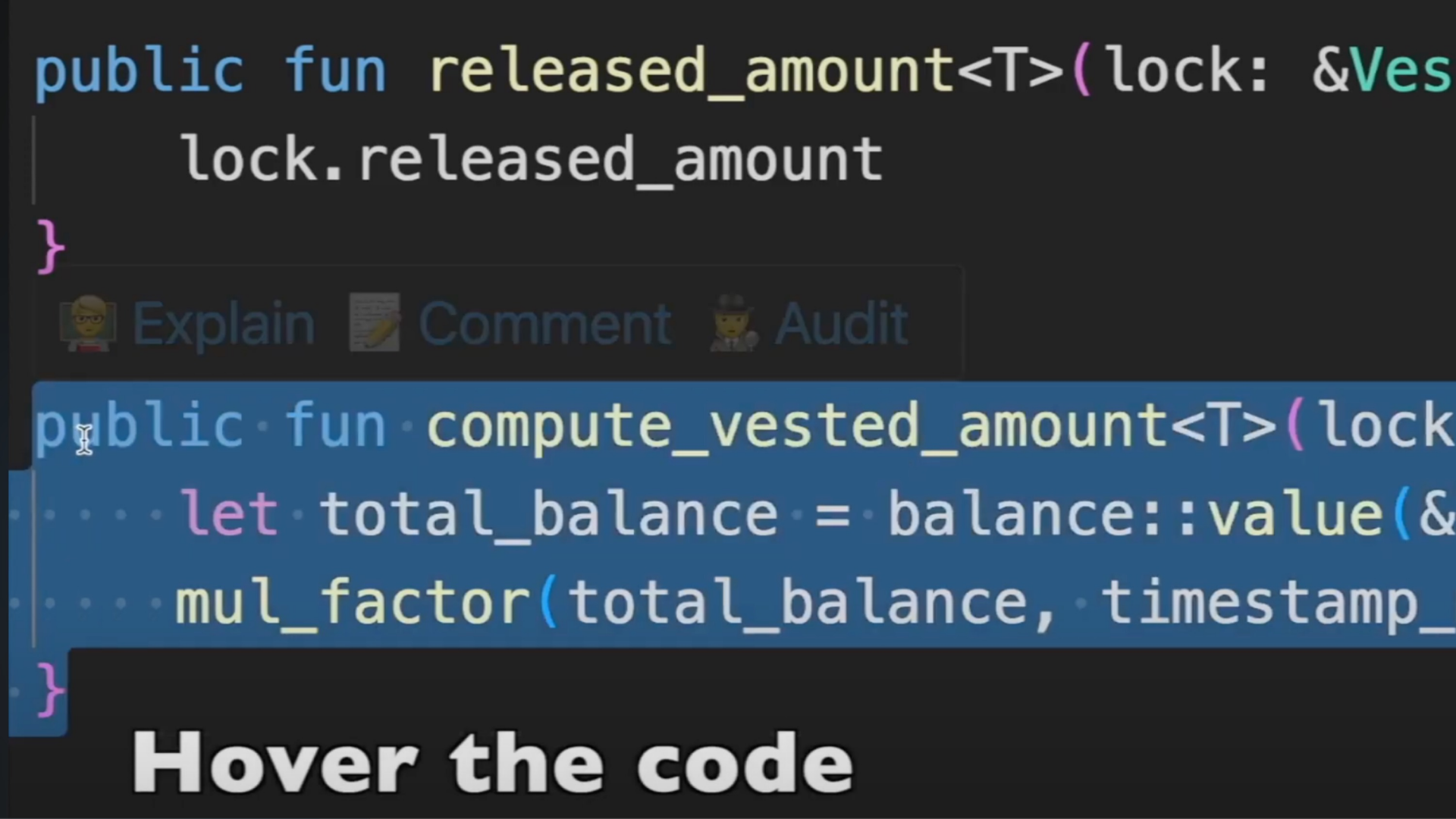
More by your personalization

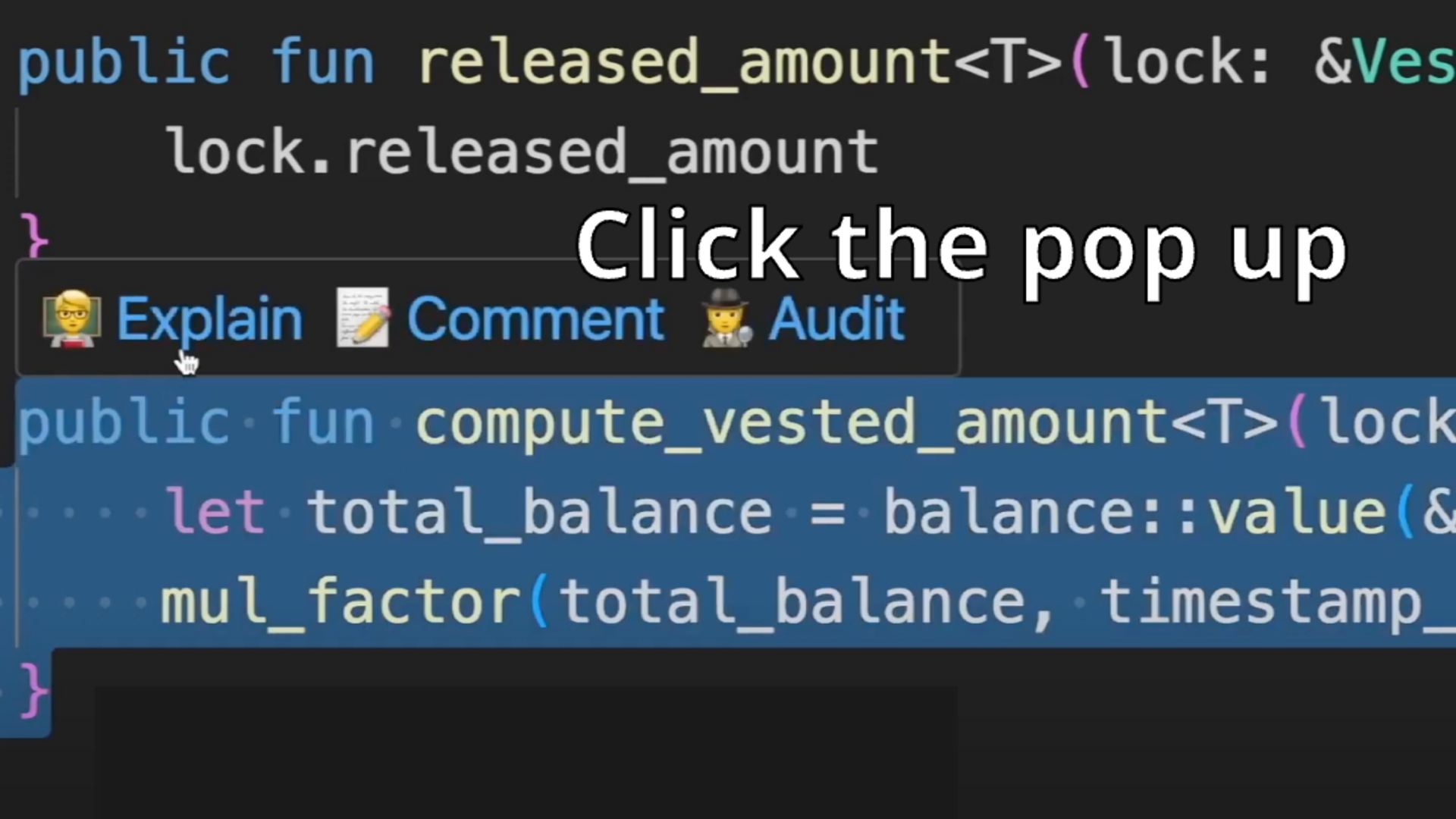
Developer

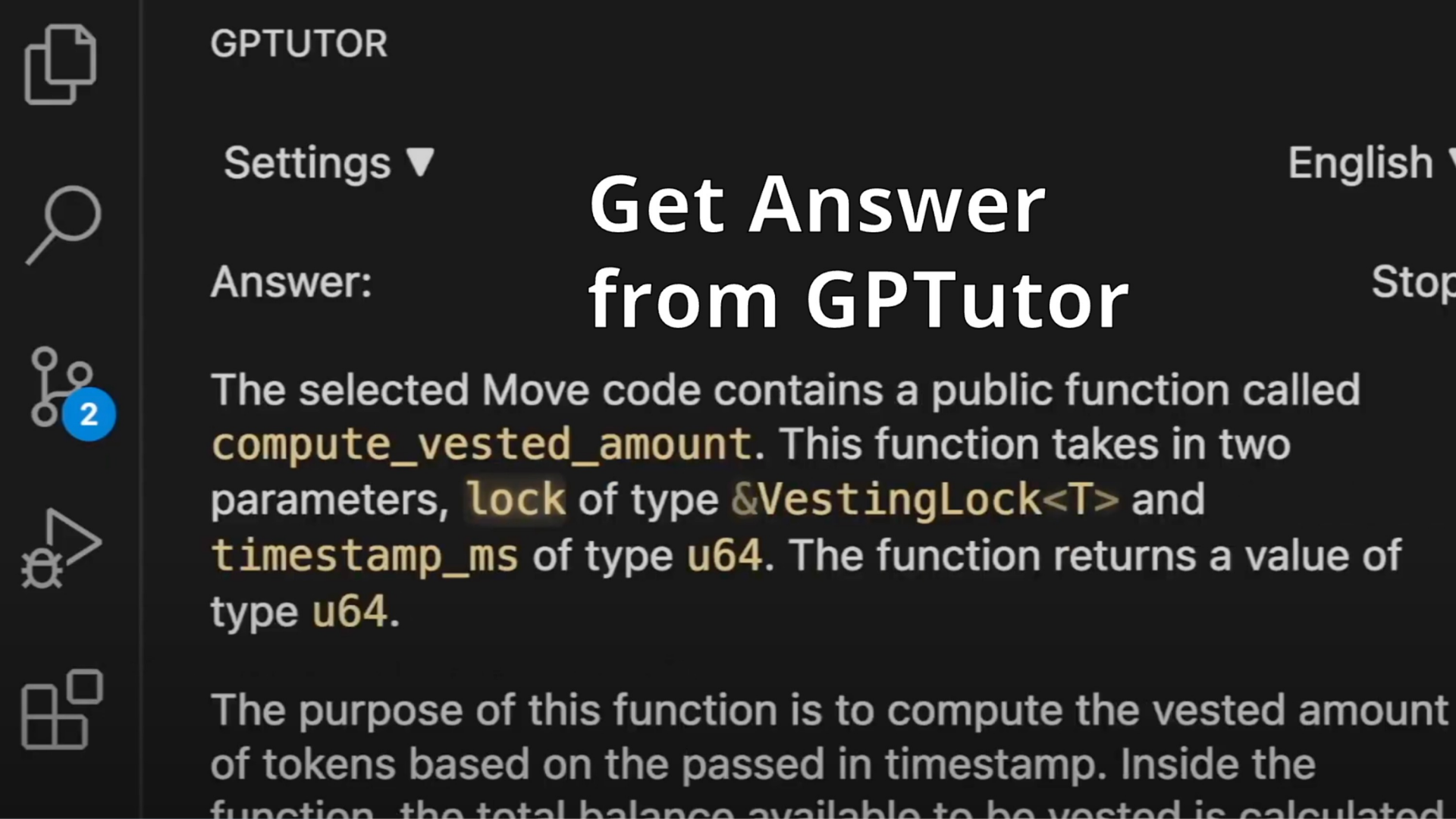
⇅

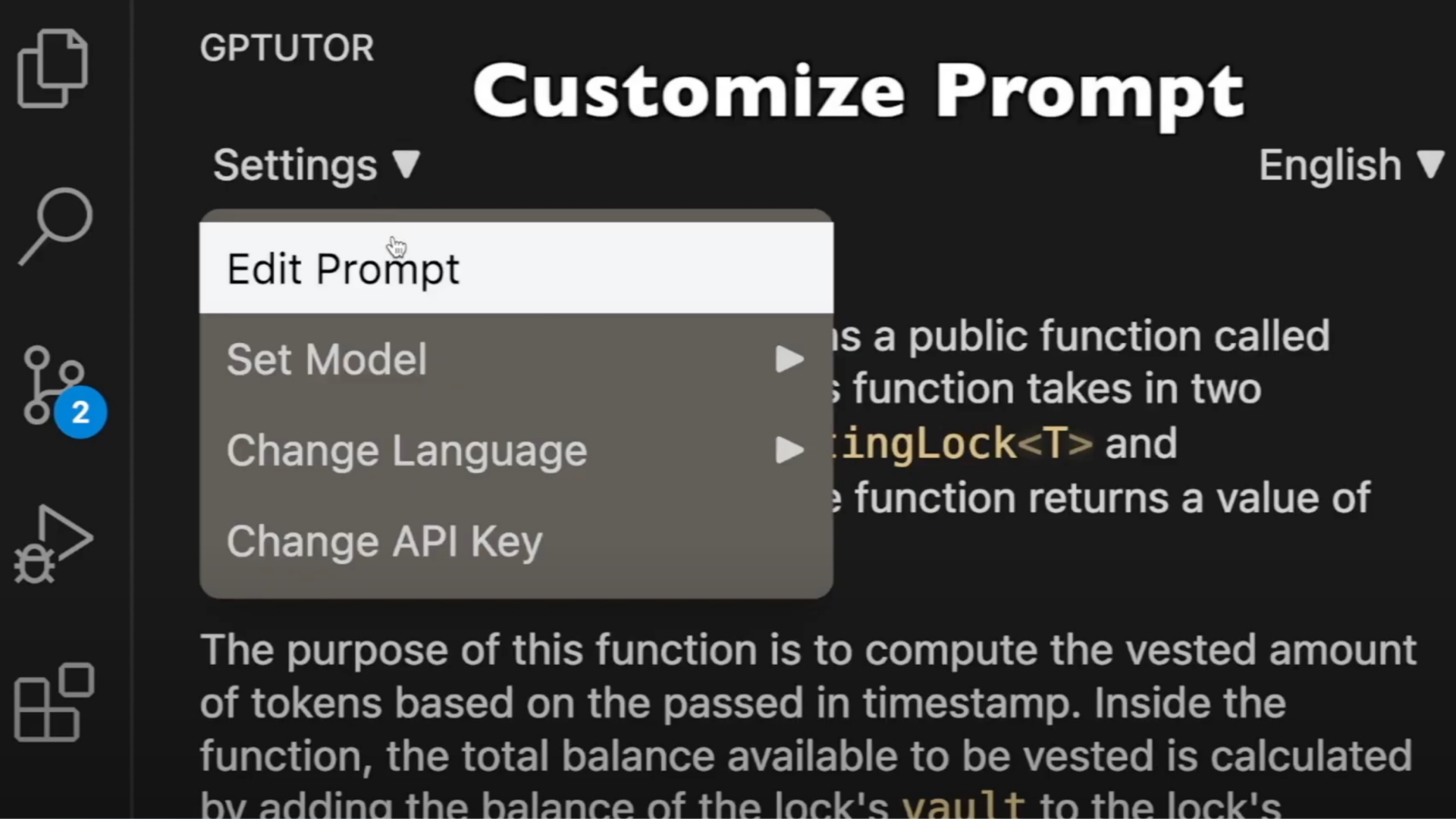
VSCode extension ChatGPT

GPTutor (🤖,🤖)


public fun released_amount<T>(lock: &Ves
lock.released_amount
}
Explain
Comment
Audit
public fun compute_vested_amount<T>(lock
let total_balance = balance::value(&
mul_factor(total_balance, timestamp_
}
Hover the code


public fun released_amount<T>(lock: &Ves
lock.released_amount
}
Click the pop up
Explain
Comment
Audit
public fun compute_vested_amount<T>(lock
let total_balance = balance::value(&
mul_factor(total_balance, timestamp_
}


GPTUTOR
Settings
English
Get Answer
from GPTutor
Answer:
Stop
2
The selected Move code contains a public function called compute_vested_amount. This function takes in two parameters, lock of type &VestingLock<T> and timestamp_ms of type u64. The function returns a value of type u64.
The purpose of this function is to compute the vested amount of tokens based on the passed in timestamp. Inside the


GPTUTOR
Customize Prompt
Settings
English
Edit Prompt
Set Model
Change Language
Change API Key
s a public function called
function takes in two
tingLock<T> and
e function returns a value of
The purpose of this function is to compute the vested amount of tokens based on the passed in timestamp. Inside the function, the total balance available to be vested is calculated by adding the balance of the lock's vault to the lock's

```
"specificLanguage": {
  "move": {
    "explain": {
      "display_name": "👩‍🏫 Explain",
      "type": "chatgpt-prompt"
      "prompt": [
        {
          "role": "system",
          "content": "Move is an open source language for writing safe
          contracts. It's format is similar to Rust. You are a Senior
          Developer \n I will provide some ${languageId} code, and it
          job to explain the  ${languageId} code I selected."
        },
        {
          "role": "user",
          "content": "Other context about the selected code is in the
```

Example:
Tailored to Sui-Move

這段程式碼定義了一個公開函式
ompute_vested_amount<T>(lock: &VestingLock<T>,
，這個函式用

Данный код на языке Move описывает функцию
compute_vested_amount, которая используется
для вычисления суммы денежных средств,
доступных

Le code Move sélectionné est une fonction publique
nommée "compute_vested_amount". Cette fonction
prend en paramètre une référence à une structure
appelée "VestingLock" et un entier non signé de

당 코드는 compute_vested_amount 함수로서, Vesting 계약
서 vested 되는 총 금액을 계산하는 함수입니다. 이 함수는 lock 인
로 VestingLock 타입을 받고, timestamp_ms 인자로 시간(ms)

このMoveコードは、VestingLock構造体とタイムスタンプを
引数とするcompute_vested_amountであり、以下の処
理を行っています。
lock.vaultのバランスとlock.released_amount

Support 100+ Languages

这段代码是一个用于计算基于时间戳的锁定金额的函数，锁定期
间会按照一定比例释放资金。这个函数名为
compute_vested_amount，接收两个参数，

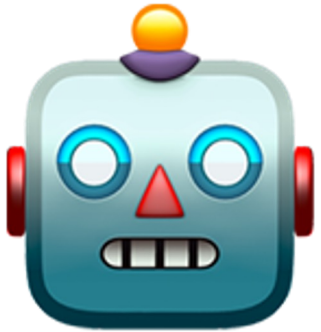
Seçilen Move kodu compute_vested_amount<T>
fonksiyonudur. Bu fonksiyon, VestingLock struct'ının
referansını ve bir zaman dam

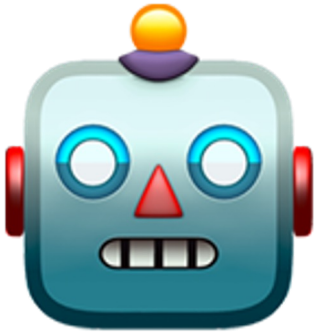
Deze Move code bevat een functie genaamd
compute_vested_amount, die berekent welk bedra
aan tokens er op een bepaald tijdstip (uitgedrukt in
milliseconden) besch

Die ausgewählte Move-Code-Funktion
"compute_vested_amount" berechnet den Betrag, d
zu einem bestimmten Zeitpunkt von einem Vertrag m
gesperrten Mitteln freigegeben werden soll. Dabei

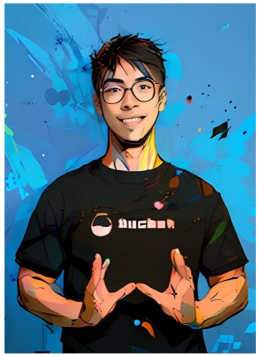
El código seleccionado es una función llamada
compute_vested_amount, que toma dos argumento
un lock de tipo VestingLock y una marca de tiempo
en milisegundos llamada timestamp_ms. La

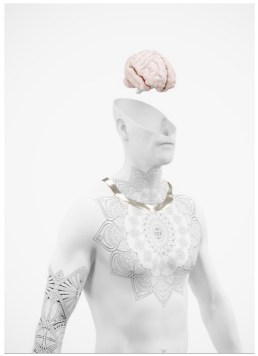
Try GPTutorYourself at VS Code Right Now!

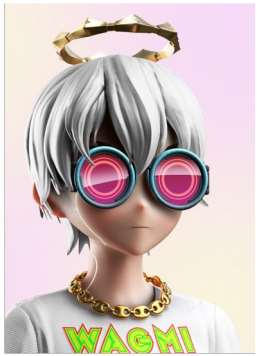




Thank you







Carnegie Mellon University