Demo:

http://118.89.117.111/solvegpt/index.html



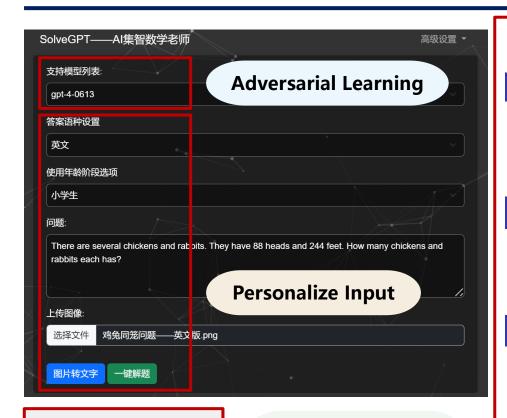
Blockchain Math Teacher

Reporter: Hongshen Zhang Zhejiang University hongshen.zhang@zju.edu.cn

2023.09.02

Demo





Accuracy: 100%

Accuracy Analysis

Knowledge Explain

Definition

Chicken

A chicken is a type of domesticated bird. In the context of this problem, a chicken has 1 head and 2 feet.

Rabbit

A rabbit is a type of animal. In the context of this problem, a rabbit has 1 head and 4 feet.

Theorem

Simultaneous Linear Equations

Simultaneous equations are a set of equations containing multiple variables. They are 'simultaneous' in that the equations are all satisfied together. In this context, the number of heads and the number of feet provide two equations that can be solved simultaneously to find the number of chickens and rabbits.

Answer

Let's denote the number of chickens as x and the number of rabbits as y. According to the problem, we have two equations based on the number of heads and feet:

1. The total number of heads gives us the first equation: x + y = 88. 2. The total number of feet gives us the second equation: 2x + 4y = 244. We can simplify this equation to x + 2y = 122.

Subtract the first equation from the simplified second one, we get y=34. Substitute y=34 into the first equation, we get x=88-34=54. So there are 54 chickens and 34 rabbits.

Blockchain Math Teacher —— Solve & NFT!

Applied for two invention patents

Demo

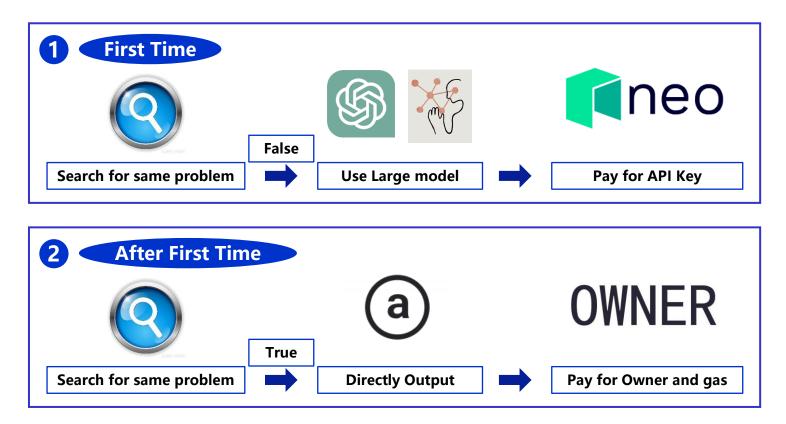




Product Feature



■ NFT——Value transfer of knowledge



Store on Blockchain and Value Transfer of Knowledge

Product Feature



Accuracy — Comparison

Correct Same **Problem** Independent Real World **Student A** Discuss **Almost Find Student B** Correct **Error Different Dispute** Wrong **High Accuracy** Same **Problem Code World** Split Step **Part** Medium Same Accuracy **Different** Run Independent **Total** Low Wrong **Accuracy**

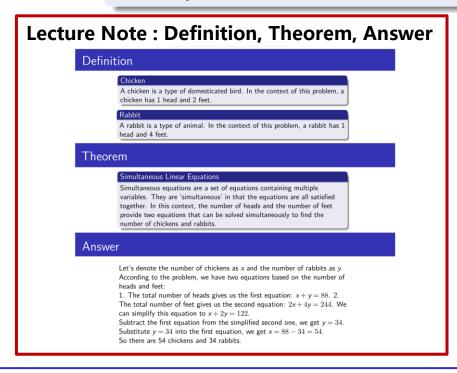
Product Feature



Personal Math Teacher—Lecture Note

Problem

There are several chickens and rabbits. They have 88 heads and 244 feet. How many chickens and rabbits each has?





1. Automatic Generation



2. Academic Template



3. Based on knowledge level

Students Need Teacher! Not Solver.

Project Goal



■ NeoWizard——Blockchain Math Teacher

- Personalize Input, different choice and photo input
- Adversarial Learning, large model joint adversarial solving
- Accuracy Analysis, evaluate accuracy of solution
- Knowledge Explain, automated generation of lecture notes

Advantage of Blockchain

- Incentive Model: receive rewards from subsequent users
- Preventing Redundant Effort: prevent repeated computations
- Ensuring Originality: for every new math problem's solution, its distinct identity on the blockchain can be ensured

Technical Implementation



Technology

Personalize Input

Accuracy Analysis Adversarial Learning

Knowledge Explain

Character

Al Smart Math Teacher

Efficient, Accurate, Educative

Math Teacher—Efficient



Personalize Input

Input Mode			
Text	Text Reading		
Image	Image Recognition		
	OCR Image		

Language
English
Chinese

Student level
Elementary
Middle
High
College

上传图像:	
选择文件	未选择任何文件

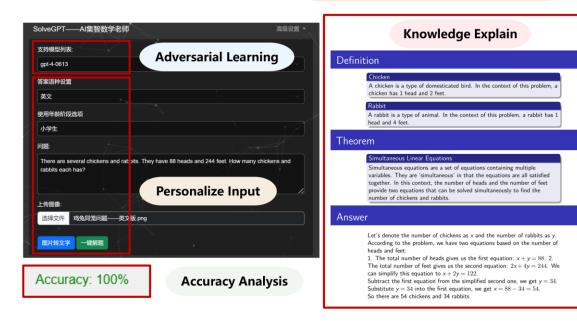




Math Teacher—Efficient



Multimodal Input



12:46 A SolveGPT **SELECT PICTURE** 一加一等于几 gpt-3.5-turbo(fast response low acc.. **SUBMIT QUESTION** Answer: 一加一等于几这个问题是一个简单的算术问 题,答案显然是2。在数学中,加法是一种基本

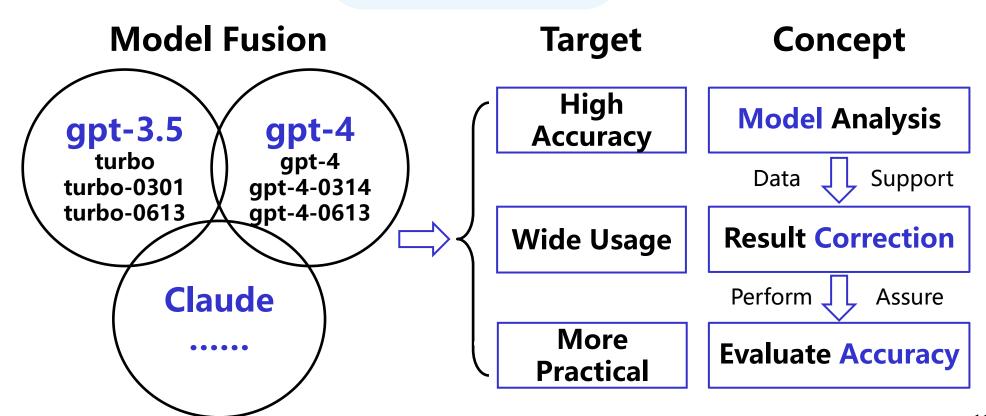
Windows, Mac - website (nginx)

Android-APP

Math Teacher——Accurate



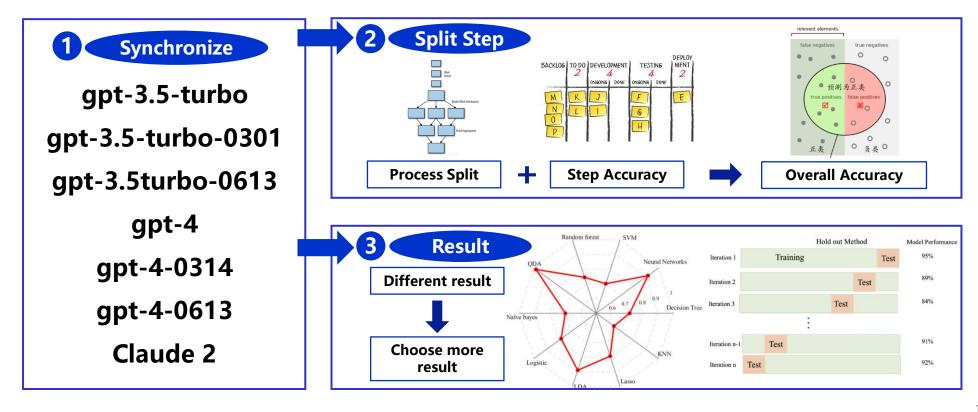
Adversarial Learning



Math Teacher——Accurate



Accuracy Analysis



Math Teacher——Accurate



	2023 College Chinese Examination						
	Mathematics						
Problem	GPT API4	GPT4-Default	GPT4-WebBing	GPT4- Wolframalpha	NeoWizard	Answer	
1	C	C	С	С	C	C	
2	A	A	A	A	A	A	
3	C	D	D	D	D	D	
4	D	D	D	D	D	D	
5	A	A	A	A	A	A	
6	В	C	/	/	В	В	
7	C	C	C	С	C	C	
8	A	A	/	/	/	В	
9	BCD	BCD	BCD	BD	BD	BD	
10	AC	AC	AC	ACD	AC	ACD	
11	AC	AB	A	AB	/	ABC	
12	A	A	A	A	A	ABD	
13	64	64	64	74	64	64	
14	$7\sqrt{2}/3$	$7\sqrt{2}/3$	5√2	$7\sqrt{2}/3$	$7\sqrt{2}/3$	$7\sqrt{6}/6$	
15	(1, +∞)	(1,2]	(3,6)	/	/	[2,3)	
16	$\sqrt{2}$	3	/	/	/	$3\sqrt{5}/5$	
Accuracy	44%	44%	44%	50%	56%	100%	

Correct Unable Wrong

Test Method: Video BV1Fh411K7vp

Math Teacher—Educative



Knowledge Explain

Knowledge Database

Automatic PPT

知识宝库:

下载



Question	Definition/Theorem/Answer
用牛顿迭代法求解 x^3+x=1	Definition: [{"name":"牛顿迭代法", "content":"牛顿迭代法是一种用于求解方程根的迭代算法,对于一个实值函数\$f(x)\$,我们可以从一个初始近似值\$x_0\$开始,通过下列迭代公式寻找\$f(x)=0\$的根: \$x_{n+1}=x_n-\\frac{f(x_n)}{f(x_n)}\$, 其中\$f'(x_n)\$是函数在\$x_n\$处的导数。"}] Theorem: [{"name":"牛顿法的收敛定理", "content":"如果\$f(x)\$在包含根的某个区间内具有连续的一阶和二阶导数,并且初值选择得当,那么牛顿法产生的迭代序列\$\{x_n\}\$会以至少二阶的速度收敛到\$f(x)\$的根。"}] Answer: 要使用牛顿迭代法求解方程\$x^3+x=1\$,首先我们需要确定函数\$f(x)\$及其导数\$f'(x)\$。这里,我们让\$f(x)=x^3+x-1\$,所以\$f'(x)=3x^2+1\$。接下来,我们需要选择一个初始值\$x_0\$,通常这个值是一个对解的粗略猜测。这里我们假设\$x_0=1\$。然后,我们就可以开始迭代过程,使用下面的迭代公式: \$\$x_{n+1}=x_n-\frac{f(x_n)}{f(x_n)}\$\$ 进行迭代,直到满足某个精度要求为止。这个过程需要用到程序计算。因此,最终的答案需要依据迭代的次数和精度要求来确定。
为了测量小木板和斜面间的摩擦因数某同学设	Definition: [{"name":"摩擦因数", "content":"摩擦因数, 也称为摩擦系数, 是描述物体表面间摩擦力强度的无量纲量。其定义为: 摩擦力和压力 (正压力) 之比, 不随接触面积的变化而变化, 只与物体表面的性质有关。摩擦系数通常区分为静摩擦系数 (在两物体开始滑动之前的摩擦系数) 和动摩擦系数 (在两物体滑动时的摩擦系数)。"}, {"name":"弹簧测力计", "content":"弹簧测力计是一种物理实验设备, 用于测量力的大小。它的工作原理主要是利用虎克定律: 弹簧的伸长或者压缩长度与施加在弹簧上的力成正比。因此, 通过测量弹簧的伸长或者压缩长度, 就可以推断出施加在弹簧上的力的大小。"), {"name":"斜面", "content":"斜面是一种常见的简单机械, 基本原理是将需要垂直上升或下降的物体沿斜面移动, 以减小所需的力。在物理学中, 斜面问题通

Definition

Chicke

A chicken is a type of domesticated bird. In the context of this problem, a chicken has 1 head and 2 feet.

Rabbi

A rabbit is a type of animal. In the context of this problem, a rabbit has 1 head and 4 feet.

Theorem

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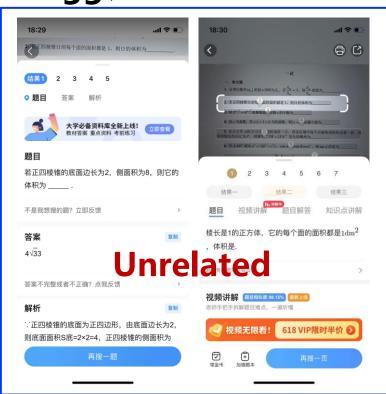
Subtract the first equation from the simplified second one, we get y=34. Substitute y=34 into the first equation, we get x=88-34=54. So there are 54 chickens and 34 rabbits.

Advantage 1



□ Compare Traditional Tools: Chegg、CourseHero



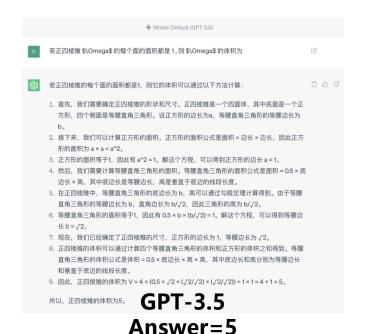


Traditional tool can not solve Problem not in database

Advantage 2



□ Compare Large Language Model: chatgpt, claude





Answer=0.09

Correct Answer=0.75

Large Language Model, Confident to give wrong answer

Advantage 3



□ Targeted Lecture notes for specific problem

Definition

Chicker

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Math Professor lecture notes template

$$v_f = C_d n rac{\pi D^2}{4} \sqrt{rac{2P}{
ho}}$$

NeoWizard can teach knowledge for teacher and student

Business Model



Business: To Customer (Each Cost within 0.1\$)

- Pay-per-view
- Pay for NFT
- **>**

■ Why choose NeoWizard?

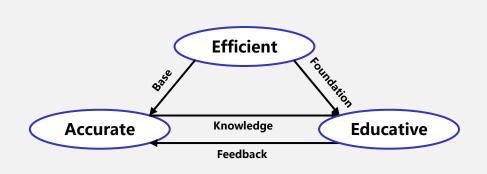
- Easy Usage
- Own pdf solution
- Personalize and Educative
- Cope with any Problem
- **>**

Thanks for listening



NeoWizard

- Personalize Input
- Adversarial Learning
- Accuracy Analysis
- Knowledge Explain



Existing Tool

Traditional tool can not solve Problem not in database

Large Language Model, confident to give wrong answer, lack of teach

Lecture note or book contains too much knowledge, not practical

NeoWizard

Click One button to generate note **Efficient**

Use Model Fusion to achieve result Accuracy

Personal Teacher, patient and smart Educative