

青少年开源项目展示

黄锦源；吴宇；陈广宇；赵炎果；邱羽墨

OpenTeens

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GestureX: 用手势打开无限可能

—— 基于手势识别的多功能可拓展项目

黄锦源 Openteens

1. 项目概览——手势模型

- 这个项目利用 Google 的 mediapipe 的关节点识别，编写了一个深度学习手势的模型
- 通过录手势跑模型来训练新的手势
- 非常成熟稳定，神经网络本身也无需修改

hand-gesture-recognition-mediapipe Public
forked from Kazuhito00/hand-gesture-recognition-using-mediapipe

main 1 branch 0 tags
Go to file Add file Code

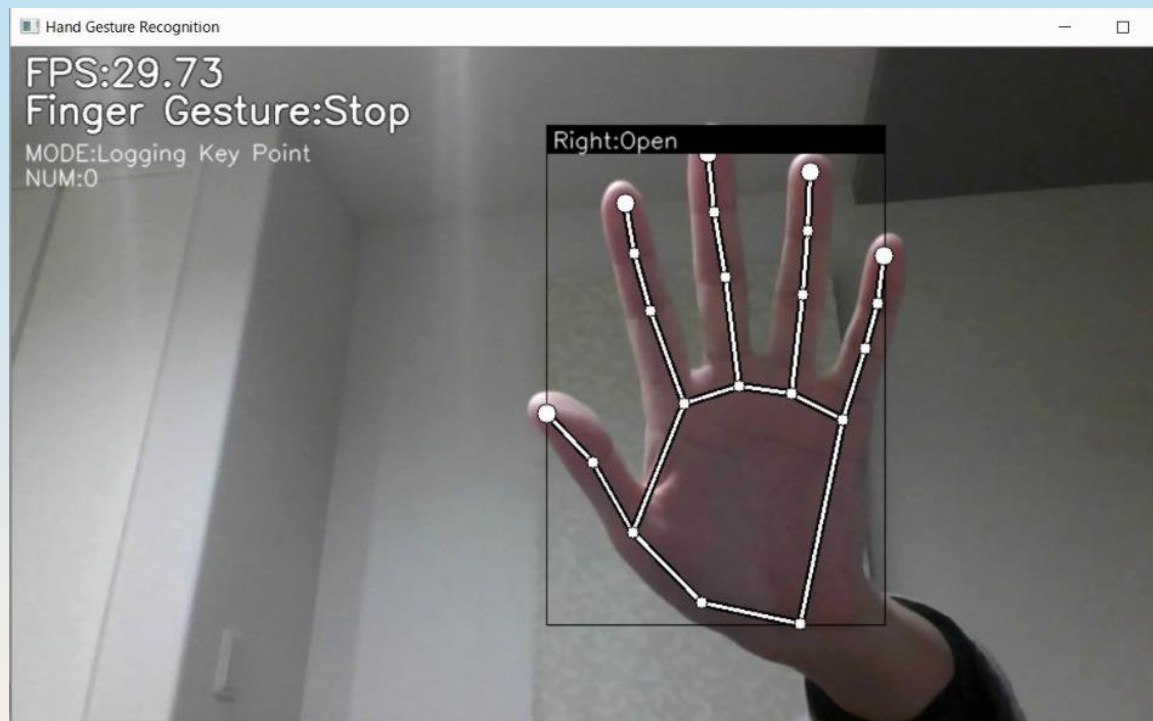
This branch is 3 commits ahead, 17 commits behind Kazuhito00:main.

File	Description	Last Commit
model	Translation and model updates	3 years ago
utils	Initial commit	3 years ago
.gitignore	Notebook translation and other improvements	3 years ago
LICENSE	Initial commit	3 years ago
README.md	Notebook translation and other improvements	3 years ago
app.py	Notebook translation and other improvements	3 years ago
keypoint_classification.ipynb	Initial commit	3 years ago
keypoint_classification_EN.ipynb	Notebook translation and other improvements	3 years ago

About
This is a sample program that recognizes hand signs and finger gestures with a simple MLP using the detected key points. Handpose is estimated using MediaPipe.

python tensorflow gesture-recognition palm-detection tfLite mediapipe

Readme
Apache-2.0 license
Activity
272 stars
5 watching
263 forks
Report repository



2. 本项目的创新——主要新增功能



手势点击系统

通过手势控制鼠标的
移动与点击



手势虚拟键鼠

模拟真实键盘打字、
鼠标操作等功能



手势画板

六色画笔、橡皮擦、
一键清除等功能



CNN

使用自己训练的CNN
自动校正手绘图形



AI绘画

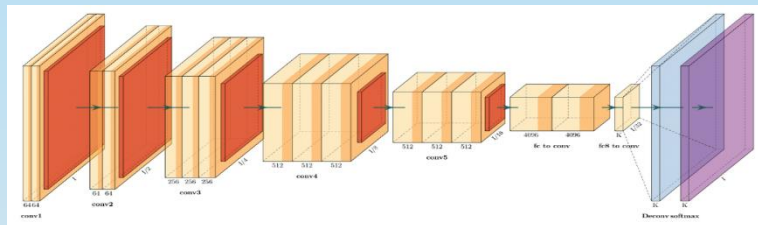
链接Stable Diffusion生
成一幅完美的AI图片

本项目的创新——CNN形状识别

数据预处理：从 GitHub 上下载了一个图形数据集，对不标准的图形进行了数据清洗，并转化为自定义的数据格式

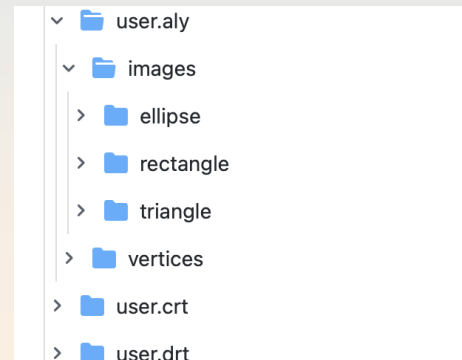
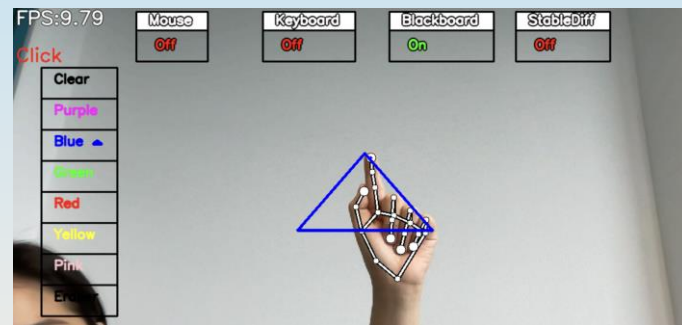
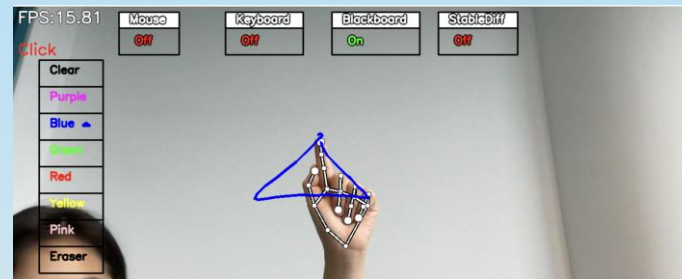
模型训练：搭建 CNN 卷积神经网络模型（卷积层+最大池化层+全连接神经网络），可以准确识别出三类图形，准确率高达95%

链接 CNN 和 Blackboard：将画板的最后一笔传入 CNN，得到结果后再进行绘制。



```
model = tf.keras.Sequential([
    tf.keras.layers.Conv2D(filters=64, kernel_size=7, input_shape=[224, 224, 3]),
    tf.keras.layers.MaxPooling2D(pool_size=2),
    tf.keras.layers.Conv2D(filters=128, kernel_size=3, activation='relu'),
    tf.keras.layers.MaxPooling2D(pool_size=2),
    tf.keras.layers.Conv2D(filters=128, kernel_size=3, activation='relu'),
    tf.keras.layers.MaxPooling2D(pool_size=2),
    tf.keras.layers.Conv2D(filters=128, kernel_size=3, activation='relu'),
    tf.keras.layers.MaxPooling2D(pool_size=2),
    tf.keras.layers.Flatten(),
    tf.keras.layers.Dense(units=128, activation='relu'),
    tf.keras.layers.Dropout(0.3),
    tf.keras.layers.Dense(units=64, activation='relu'),
    tf.keras.layers.Dropout(0.3),
    tf.keras.layers.Dense(units=3, activation='softmax'), # 3 units
])
```

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}
```



项目演示

<https://www.bilibili.com/BV1s94y1j7tC>

开头就不顺利：环境配置问题

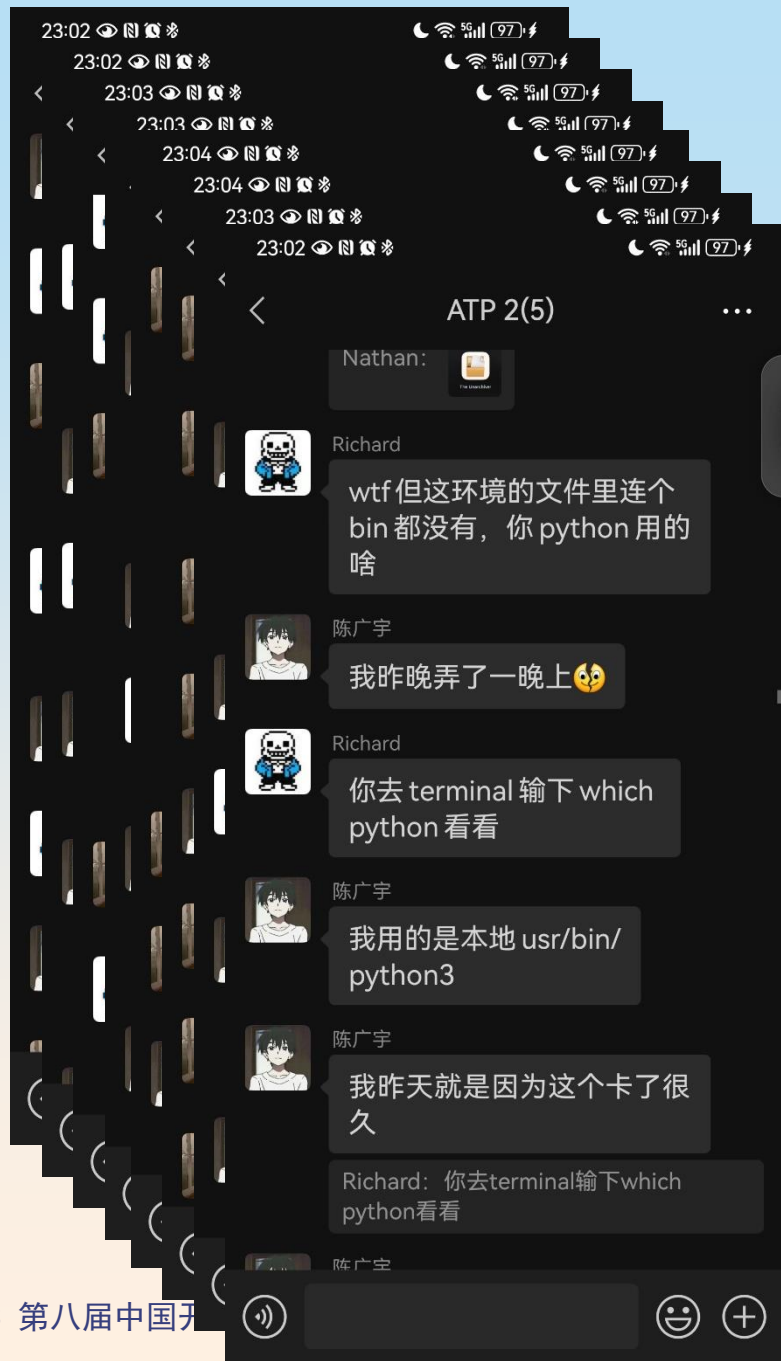
我昨晚弄了一晚上🤔

刚刚用了还是报错，我干脆
删了重装一遍

requirement.txt
1.9 KB



我下了2天了🙏



功能没写好，需要演示



然后说一下，这虚拟键盘是真的难用，我这 gif 录了十多分钟没录出来，干脆直接把除了 abcde 的按键给关了

一个小时后。。。。

@Richard 那个功能我们修好了，已经 push 了



台球 vs 蹄花





一切地方皆能工作

开源：川流不息、山海相映

累瘫了



THANK YOU

QUESTIONS?

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视频号：开源社KAIYUANSHE

新浪微博：开源社

B站：开源社KAIYUANSHE

简书：开源社

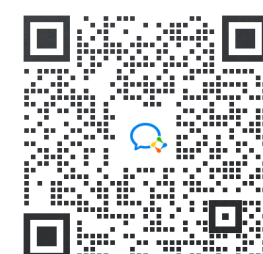
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基于深度学习的扁虫识别 及跟踪算法

赵炎果 (Spark) 广州贝赛思国际学校



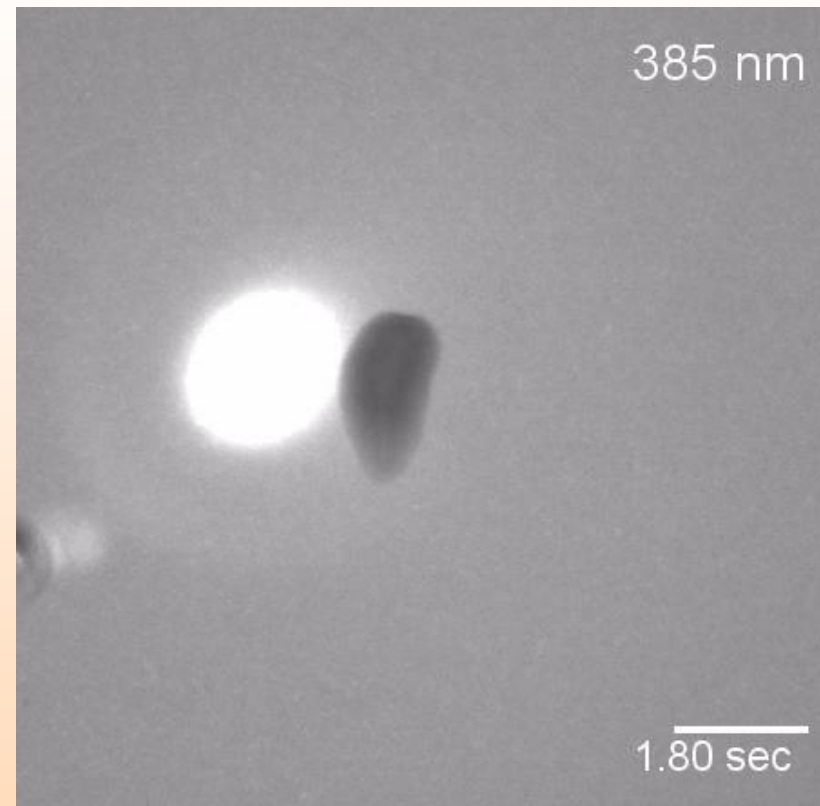
扁虫对海洋经济的影响

- 扁虫（*Stylochus* sp.）会降低牡蛎和其他贝类产品产量
- 现在对于扁虫的觅食行为，特别是对水域条件（例如盐度、温度）快速变化的响应，仍然不清楚。
- 更好地了解它们对海洋生态和贝类养殖的影响。
- 这有助于制定可以减少扁虫危害的行动计划。



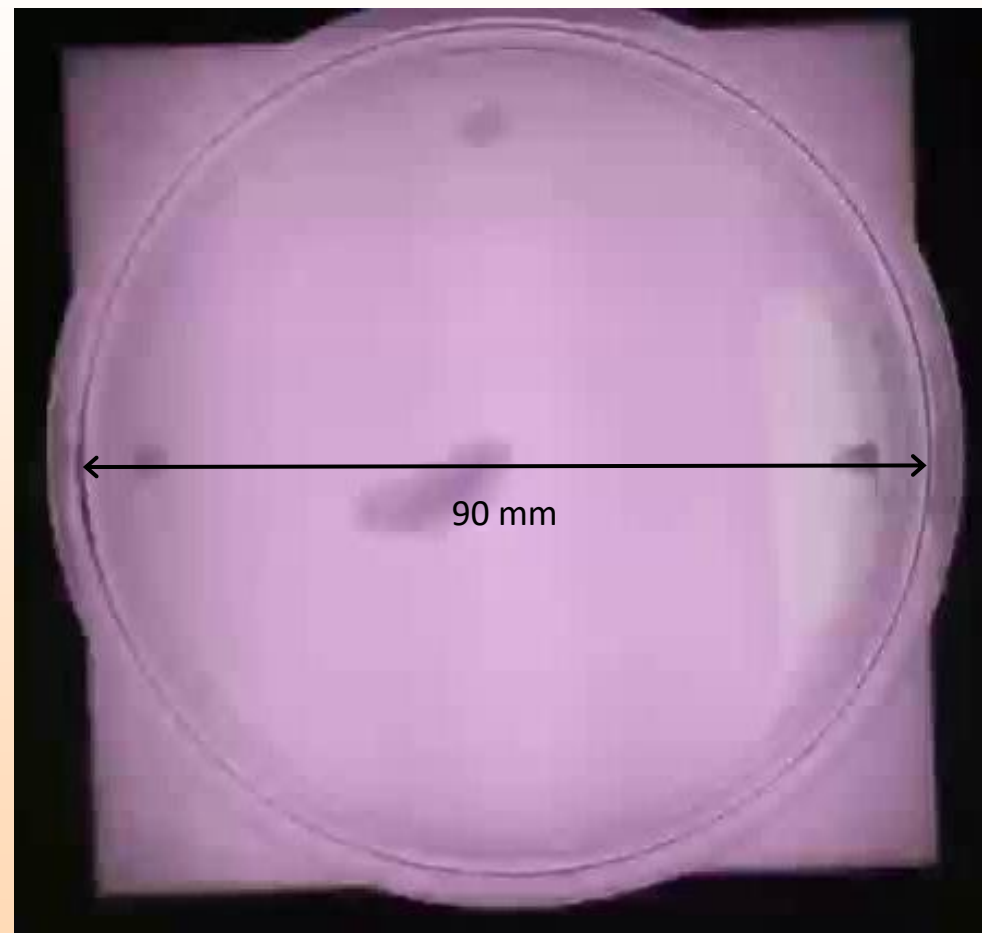
当前扁虫研究的障碍

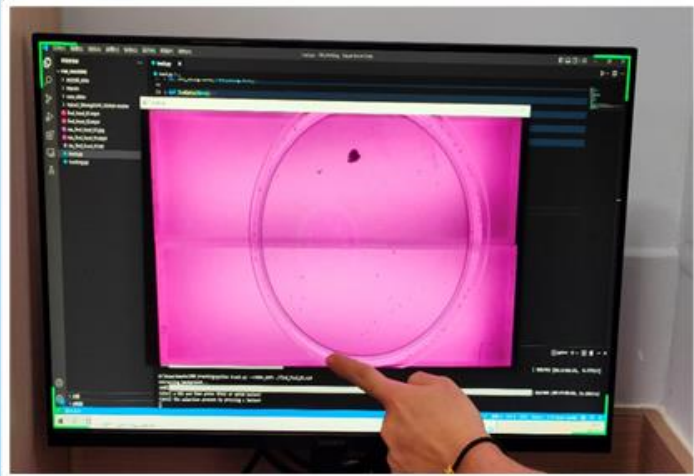
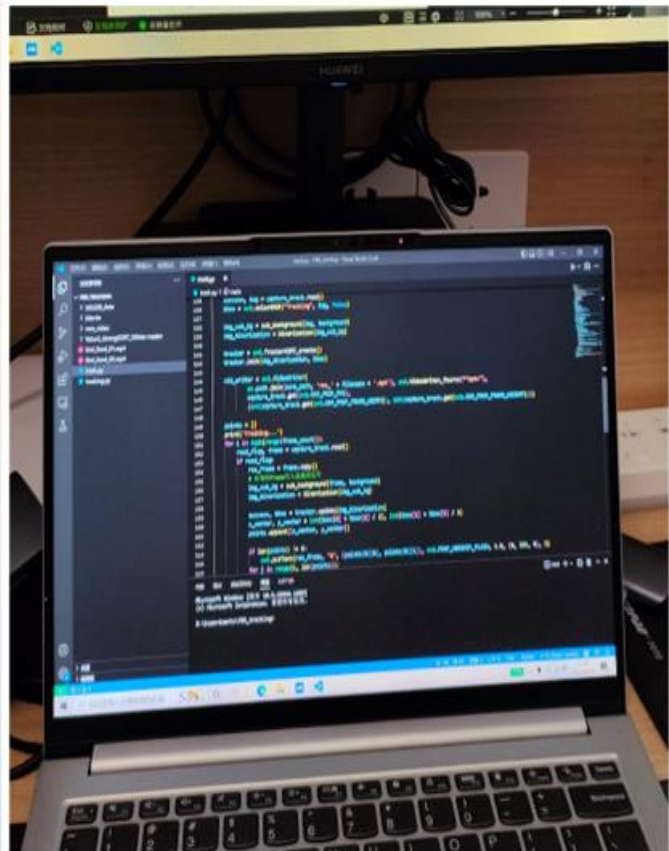
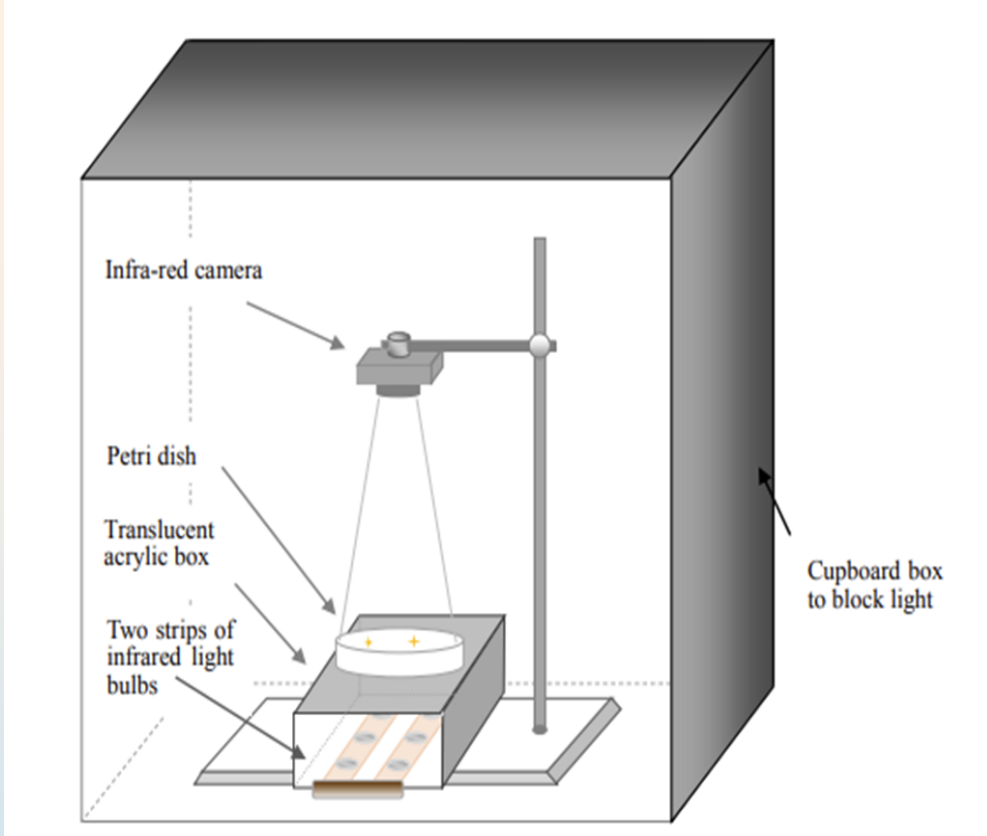
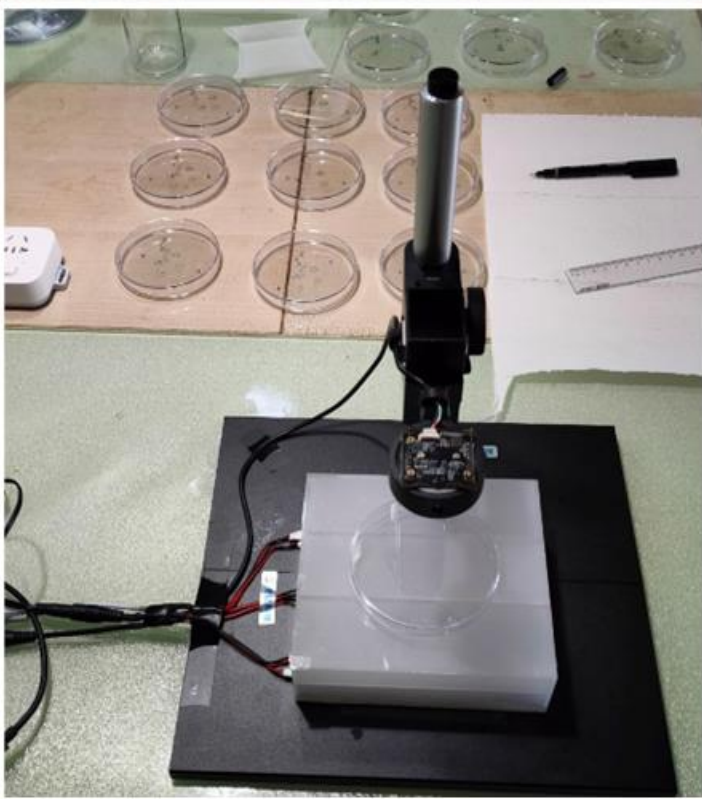
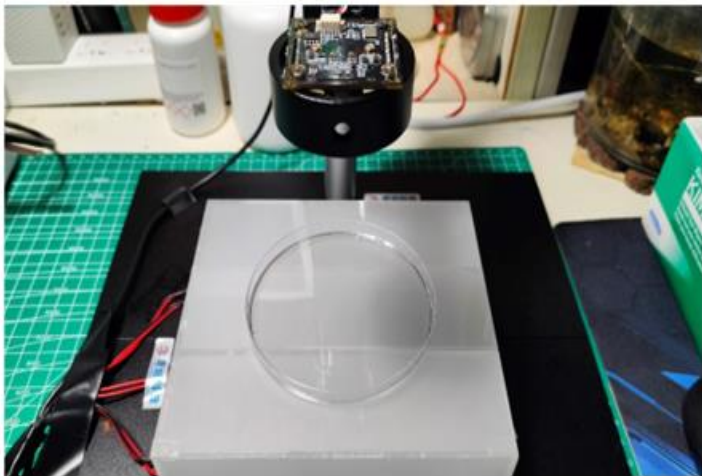
- 需要进行大规模行为实验
- 肉眼追踪 - 有在过程中失去注意力的风险
- 缺乏适用于研究扁虫的合适实验设备
 - 扁虫有负趋光反应
 - 当前的实验设备都使用白光成像
- 缺乏高效自动追踪扁虫的算法



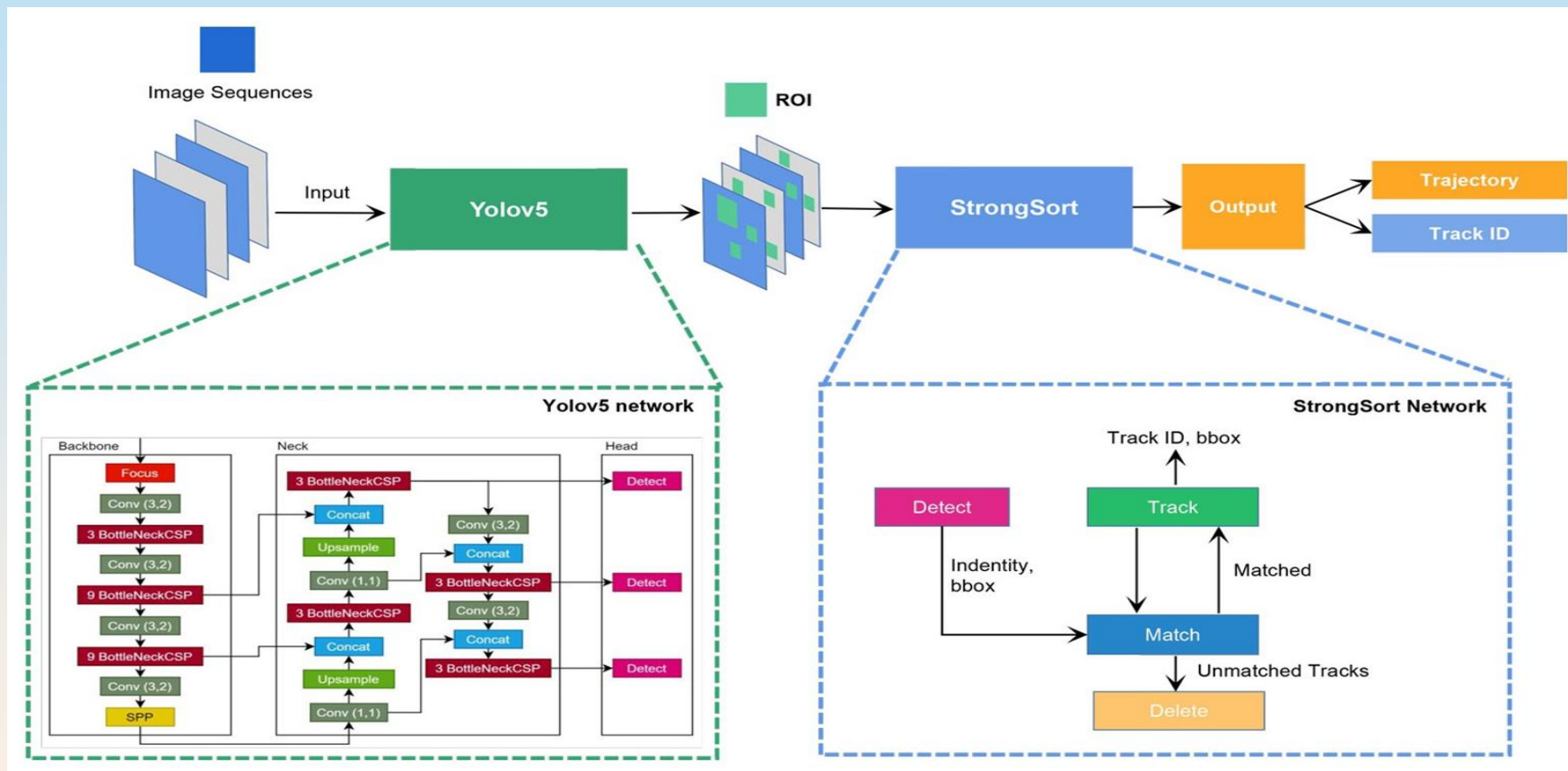
目前的机器学习方法

- 基于卡尔曼滤波器的机器学习方法
- CSRT、KCF、MTL等
- 形状改变后容易失去追踪





基于StrongSort-Yolo的目标跟踪算法

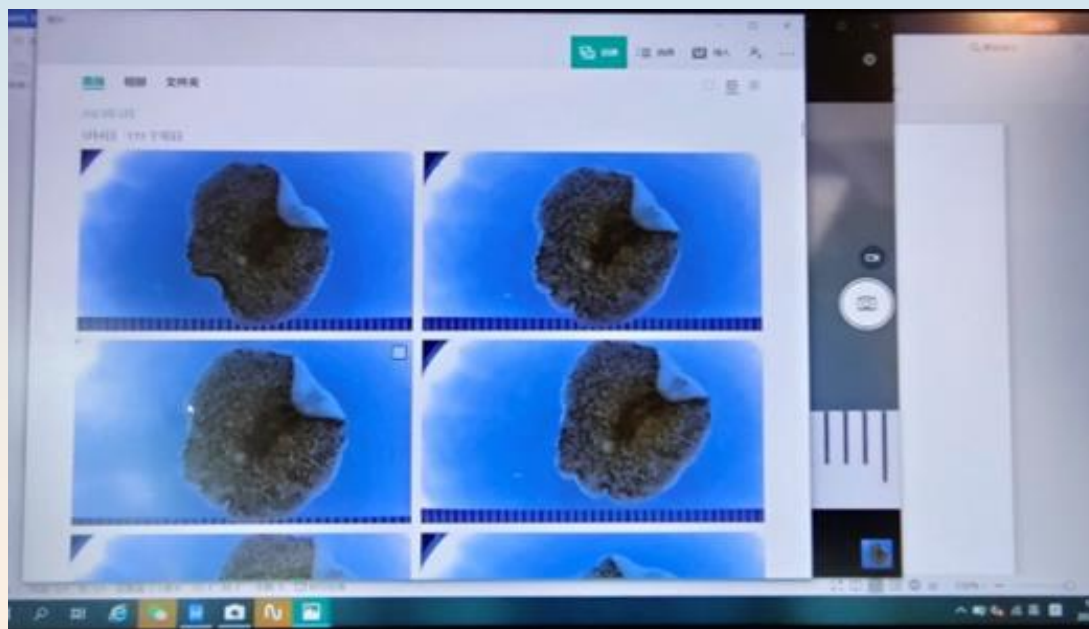


基于图片差异度的数据精简化过程

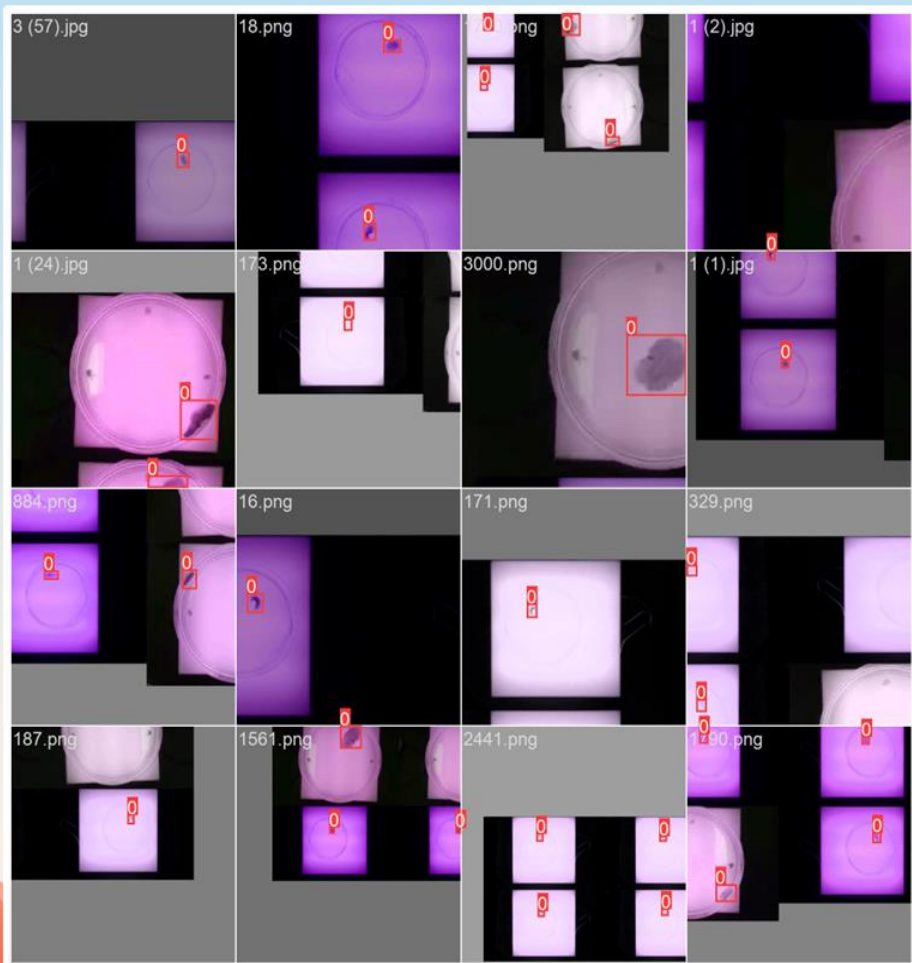


- 汉明距离

- $Ham(x, y) = \sum_{i=0}^n |x_i - y_i|$



实验设置



评价指标

- 准确度

$$\text{Successful Track Rate (STR)} = \frac{t_{tot}}{n}$$

- 速度

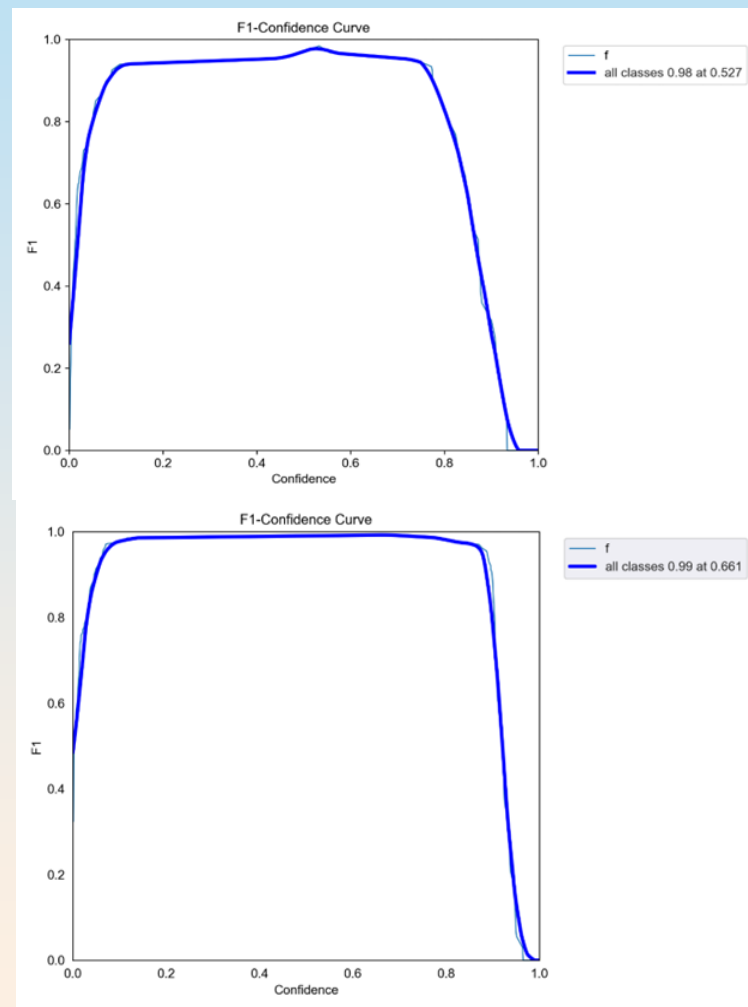
$$\text{Average Detection Time per Frame (ADPF)} = \frac{n_{corr}}{n}$$

数据集

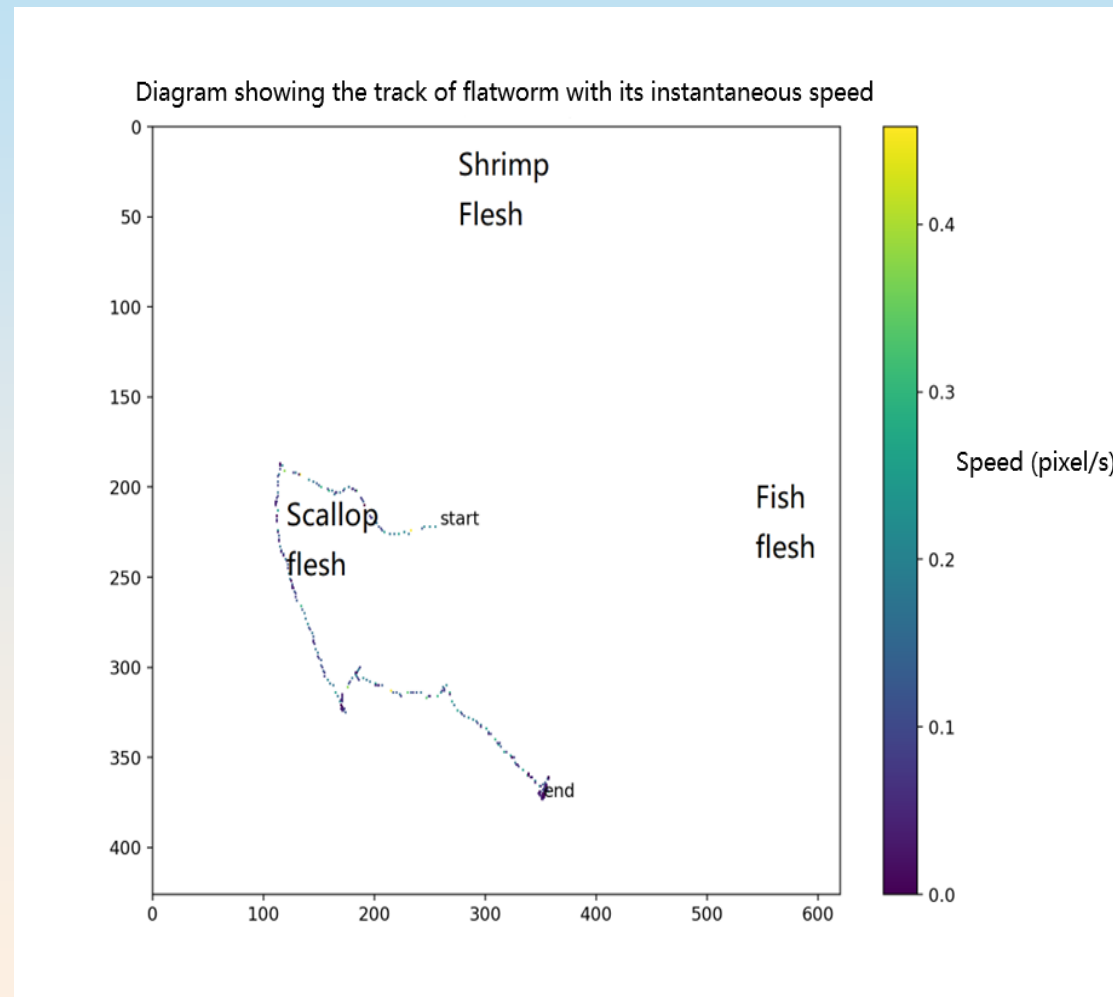
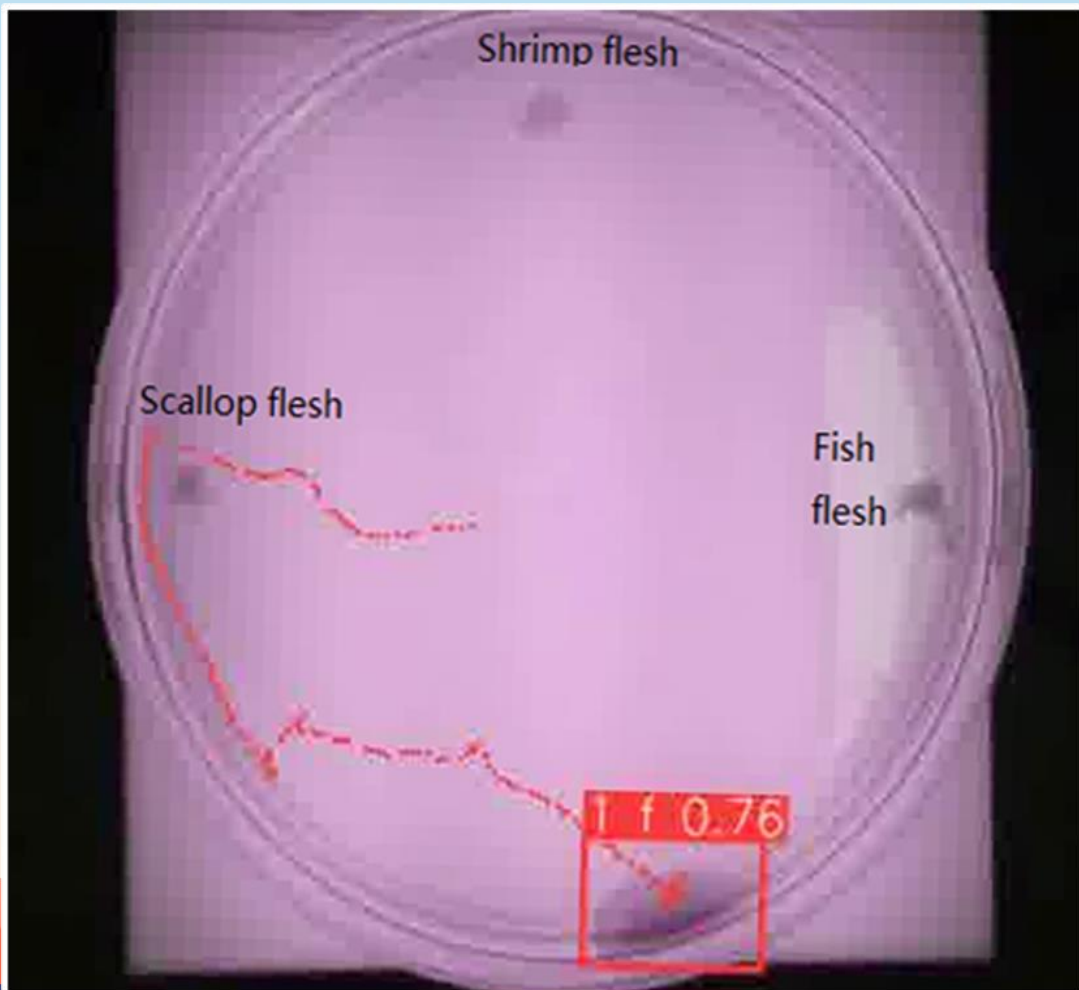
- 数据集构成: 253 个样本(原始数量3450)
- 数据标注: 扁虫目标的Bounding Boxes

结果

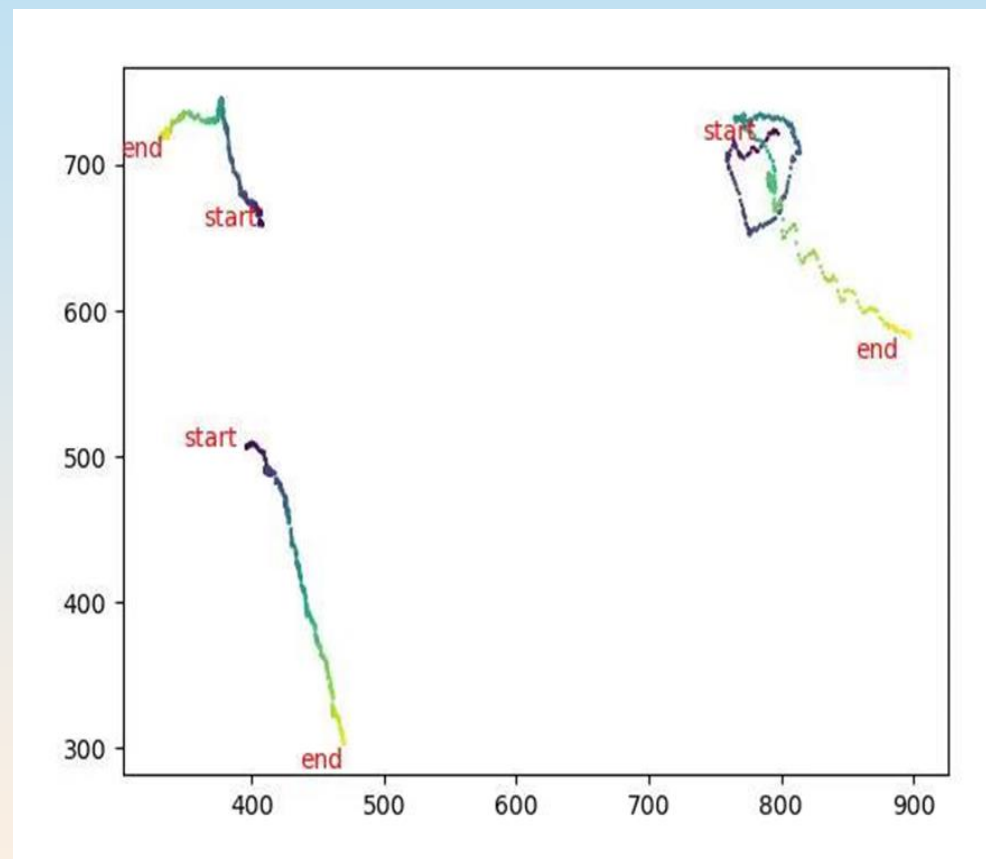
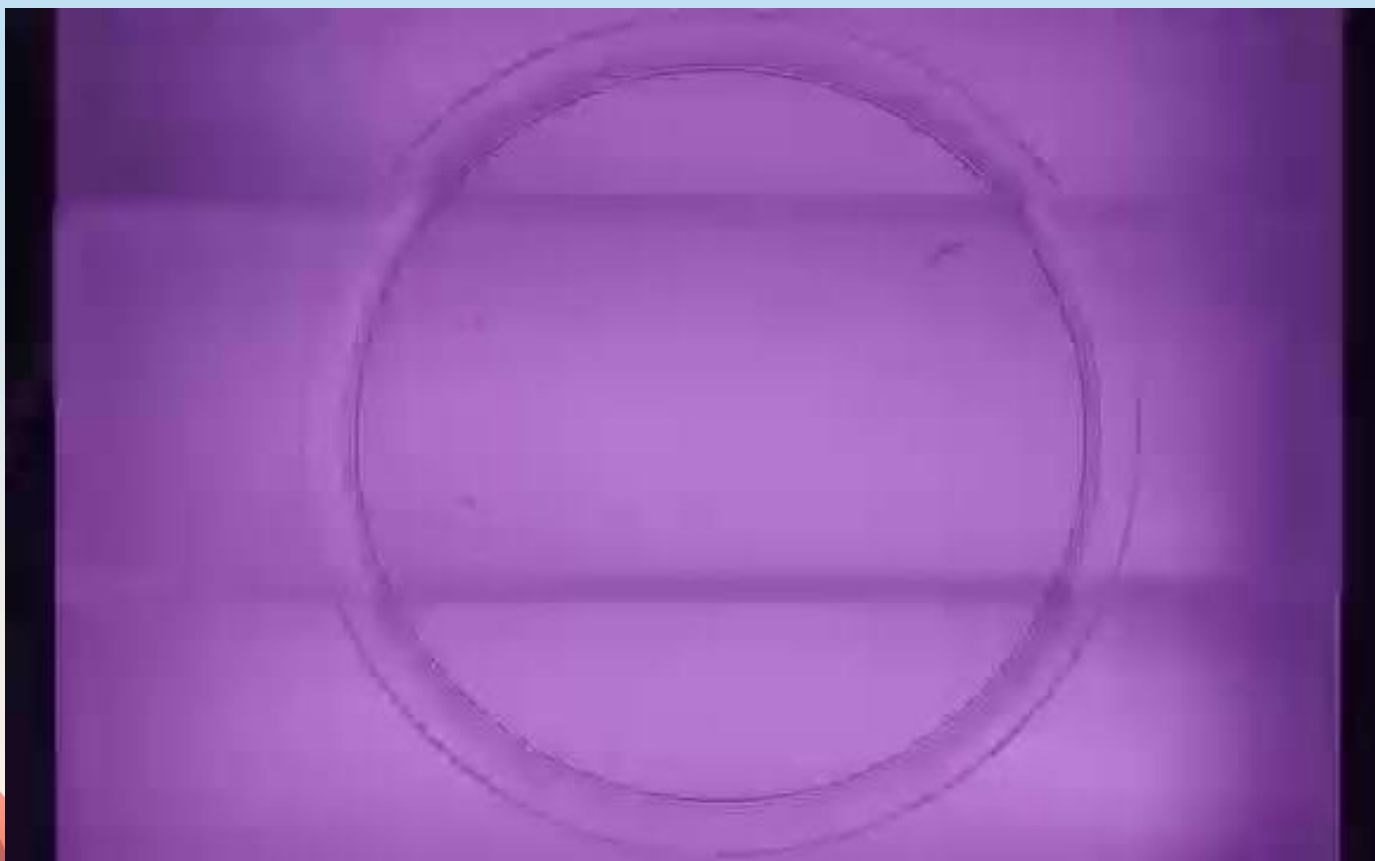
Method	STR (%)
BOOSTING	11.08
CSRT	8.82
KCF	1.76
<u>MedianFlow</u>	5.04
MIL	4.53
MOSSE	0
TLD	7.56
Proposed Study	100.00



扁虫捕食行为分析实验



多目标场景下的应用



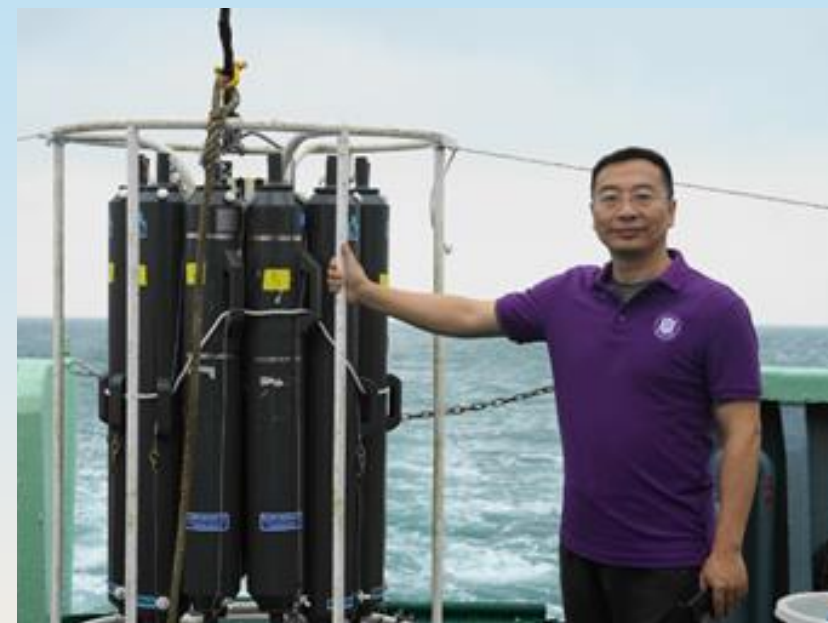
鸣谢



Yue Him (Tim) Wong



Leon Chen



Song (Tom) Xu

总结

- 基于样本图像差异性构建扁虫训练数据集的高效方法
- 避免光性趋向偏差 - 在实验平台中使用红外成像
- 一种用于跟踪扁虫和其他变形物体的新工作流程
- 在未来的研究中，我们将应用该系统分析其他可变形物种的行为
- 这也可以用来研究具有大样本规模的物种的行为
- 论文查阅渠道，ISSN：0197-7385

THANK YOU

QUESTIONS?

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视频号：开源社KAIYUANSHE

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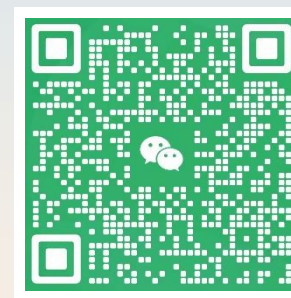
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LLM-eval-pipeline

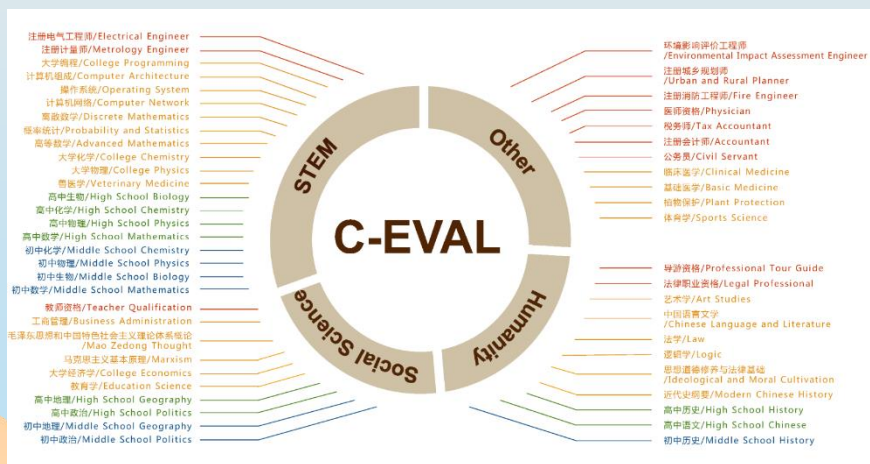
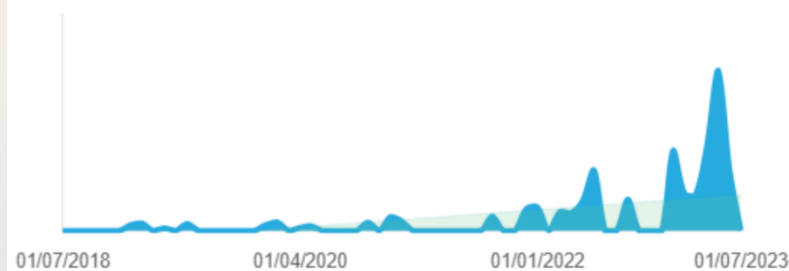
陈广宇 讲师 / OpenTeens



LLM-eval-pipeline: 大语言模型测试框架

- 今年，是ChatGPT作为导火索而让大型语言模型火爆的一年。
- 每做出一个大型语言模型来，自然需要测试它。
- 流行的测试Benchmarks包括：MMLU, CEval, AGIEval, GSM8K, MMCU, 等等。
- 可是有那么多不同的针对不同领域的测试，而我们又需要全面的结果，一个配置测试起来不是会很麻烦吗？

New organizations over time
Monthly growth in period: 10.64%



```

--dynamo_backend was set to a value of "no"
To avoid this warning pass in values for each of the problematic parameters or run "accelerate config".
Loading checkpoint shards: 25% | ██████████ | 1/4 [00:39<
Loading checkpoint shards: 50% | ██████████ | 2/4 [00:39<
Loading checkpoint shards: 75% | ██████████ | 3/4 [00:48<
Loading checkpoint shards: 100% | ██████████ | 4/4 [00:53<
00:00, 13.29s/it]
discrete_mathematics: 0% | ██████████ | 0/1 [00:09<, 7it/s]
You're using a BloomTokenizerFast tokenizer. Please note that with a fast tokenizer, using the '__call__' method is faster than using a method to encode the text followed by a call to the 'pad' method to get a padded encoding.
discrete_mathematics: 100% | ██████████ | 1/1 [00:01<00:00, 1.34s/it]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/discrete_mathematics.jsonl
{'Accuracy': 1.0}
high_school_chemistry: 100% | ██████████ | 1/1 [00:00<00:00, 5.84it/s]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/high_school_chemistry.jsonl
{'Accuracy': 1.0}
high_school_mathematics: 100% | ██████████ | 1/1 [00:00<00:00, 4.87it/s]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/high_school_mathematics.jsonl
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high_school_politics: 100% | ██████████ | 1/1 [00:00<00:00, 4.68it/s]
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{'Accuracy': 1.0}
clinical_medicine: 100% | ██████████ | 1/1 [00:00<00:00, 6.79it/s]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/clinical_medicine.jsonl
{'Accuracy': 1.0}
probability_and_statistics: 100% | ██████████ | 1/1 [00:01<00:00, 1.23s/it]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/probability_and_statistics.jsonl
{'Accuracy': 1.0}
middle_school_biology: 100% | ██████████ | 1/1 [00:00<00:00, 5.28it/s]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/middle_school_biology.jsonl
{'Accuracy': 1.0}
environmental_impact_assessment_engineer: 100% | ██████████ | 1/1 [00:03<00:00, 3.13s/it]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/environmental_impact_assessment_engineer.jsonl
{'Accuracy': 1.0}
business_administration: 100% | ██████████ | 1/1 [00:00<00:00, 2.03it/s]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/business_administration.jsonl
{'Accuracy': 1.0}
logic: 100% | ██████████ | 1/1 [00:00<00:00, 2.25it/s]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/logic.jsonl
{'Accuracy': 1.0}
veterinary_medicine: 100% | ██████████ | 1/1 [00:00<00:00, 3.65it/s]
Save responses to benchmark_eval/results/CEval/phoenix-inst-chat-7b/few_shot/veterinary_medicine.jsonl
{'Accuracy': 1.0}
art_studies: 100% | ██████████ | 1/1 [00:00<00:00, 2.56it/s]

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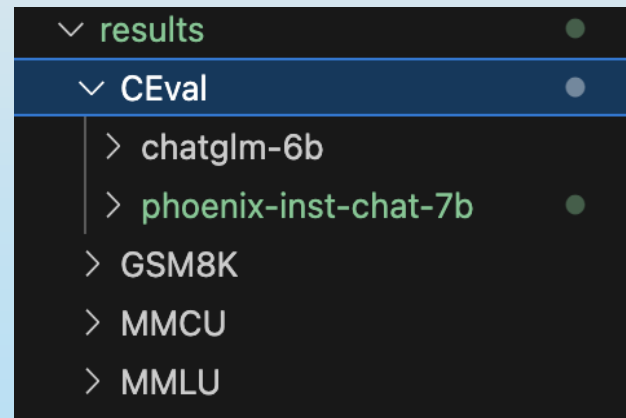
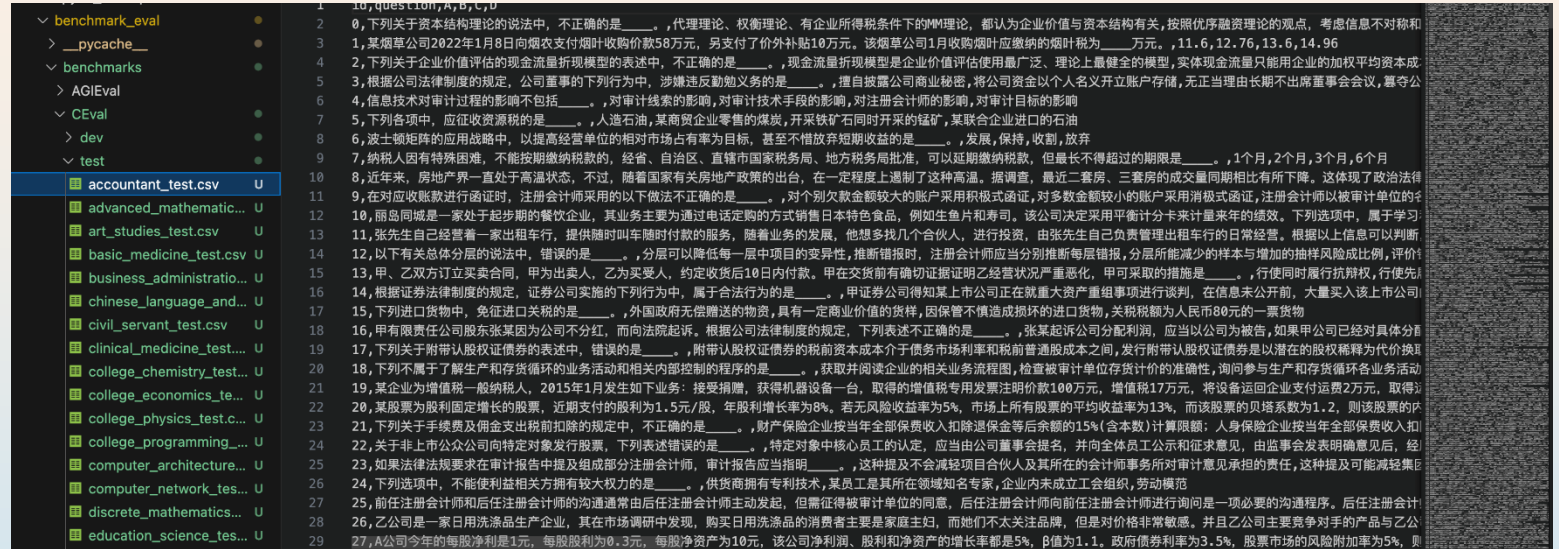
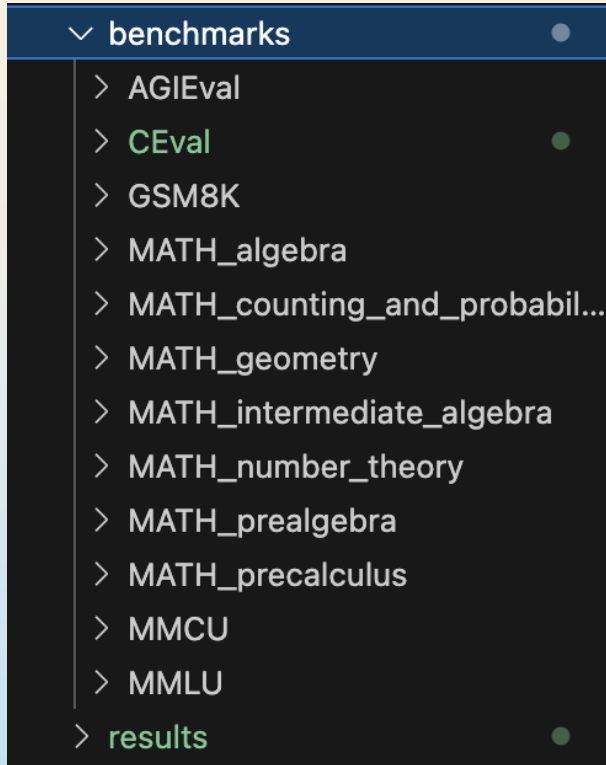
LLM-eval-pipeline: 大语言模型测试框架

- 把所有流行的测试集都集中到了一个框架。
- 当别人想测试他们新开发出来的大型语言模型时，
需要做的便只有配置他们的模型。
- 就这么简单方便。
- 把结果根据原项目的分类打分反馈给用户。
- 会给每一类打出这个大语言模型的分。

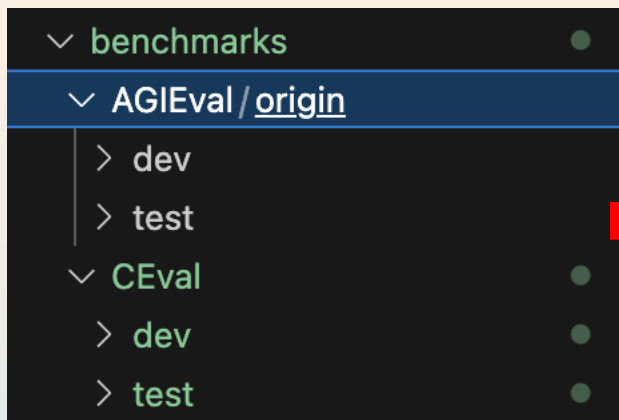
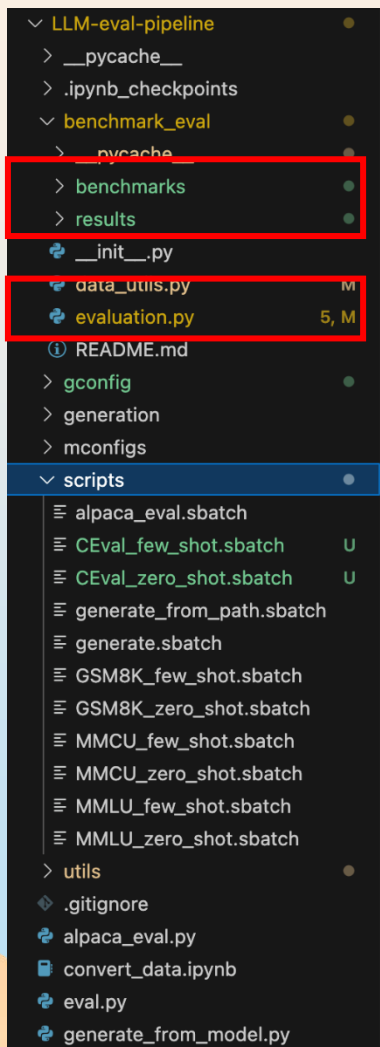
```
≡ alpaca_eval.sbatch
≡ CEval_few_shot.sbatch    U
≡ CEval_zero_shot.sbatch  U
≡ generate_from_path.sbatch
≡ generate.sbatch
≡ GSM8K_few_shot.sbatch
≡ GSM8K_zero_shot.sbatch
≡ MMCU_few_shot.sbatch
≡ MMCU_zero_shot.sbatch
≡ MMLU_few_shot.sbatch
≡ MMLU_zero_shot.sbatch
```

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      "overall": {
        "Accuracy": 0.35
      }
    },
    "chemistry": {
```


LLM-eval-pipeline: 大语言模型测试框架



LLM-eval-pipeline: 大语言模型测试框架



香港中文大学（深圳）LLM实验室


从找大巴开始学起。。。



香港中文大学（深圳）LLM实验室



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 **FreedomIntelligence**

Popular repositories

- LLMZoo** Public
LLMZoo is a project that provides data, models, and evaluation benchmark for large language models.
Python 2.7k 184
- Medical_NLP** Public
Medical NLP Competition, dataset, large models, paper 医疗NLP领域比赛, 数据集, 大模型, 论文, 工具包
1.7k 359
- HuatuoGPT** Public
HuatuoGPT, Towards Taming Language Models To Be a Doctor. (An Open Medical GPT)
Python 728 90
- TextClassificationBenchmark** Public
A Benchmark of Text Classification in PyTorch
Python 590 137
- InstructionZoo** Public
225 21
- crosstalk-generation** Public
Code and data for crosstalk text generation tasks, exploring whether large models and pre-trained language models can understand humor.
Python 159 17

带我踏上征程的博士

我是群聊“「玩转 ChatGPT」交流群 1”的 [redacted]。了解一下 github 项目的具体需求

以上是打招呼的内容

你已添加了岑树。，现在可以开始聊天了。

您好

您好，我是港中深的在读博士生，课题组方向是大语言模型。组内做过一些千 stars 的开源 github 项目，且长期对为社区贡献好项目感兴趣。看到您有做项目的需求，我们刚好也需要一些人手，想先互相了解一下，看看有没有合作的机会？

17:47

好啊，我也介绍一下他的情况

畅为首要考虑。现在我们这边的决定是这样，按照平时招收校内 RA/ 实习生的模式来，走面试，双方都觉得合适咱们就一起做（区别是我们没法给你们发工资）。合作周期可能是两三个月。github 开源项目广宇贡献了，名字就会自动出现在页面上，我们也会在 README 里提到 contributors

考虑到广宇的底子不错，也说有兴趣愿意做，我们就按照大一大二的水平来考虑。我这边指定一道题目，对于愿意投入的人来说不会太难（途中遇到问题也可交流），我带校内无 LLM 背景的人也是用这个上手（广宇这边额外的一个挑战可能在于适应 python）。合作起来，我们就当作暑期实习生来培养了。您觉得如何？

参观港中深

香港中文大学（深圳）



香港中文大学（深圳）
The Chinese University of Hong Kong, Shenzhen

小程序

部门填 数据科学学院-学院办公室

需要先报备一下

[redacted] : 香港中文大学（深圳）

访客入校报备	
被访人姓名	[redacted]
被访人手机号	[redacted]
开始时间	2023-07-24 10:38
结束时间	2023-07-30 23:59
来访天数	7
来访事由：请填写来访事由如学术来访、公务来访、面试，或其他	学术来访
访客姓名	陈广宇
访客手机号	[redacted]
访客单位	学生
证件类型	身份证

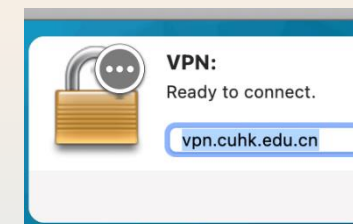
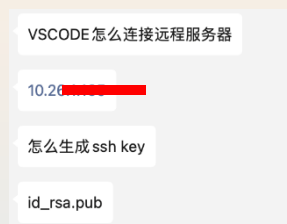
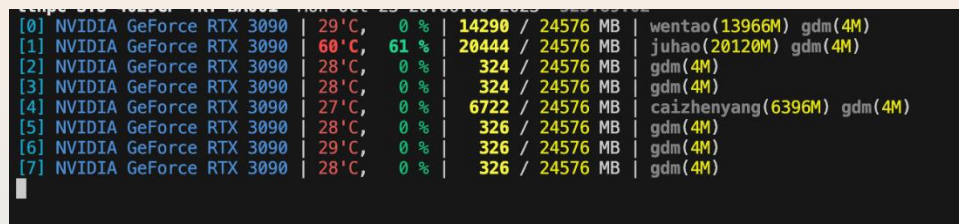
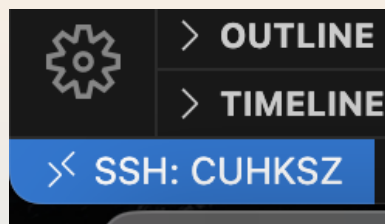
查看审批节点

- 提交 2023-07-24 10:42:51
- 部门审批 待审批

带我踏上征程的博士



她把从基础到进阶的经验都教给了我，甚至包括在第一天教我怎么配置她的远程环境来利用学校的GPU。



也包括很多别的入门知识，让我学到的不仅仅有代码结构，而更多是关于这一领域的更全面的知识。

你了解一下 pretrained model/backbone, instruction/instruction following/instruction-tuned/instruction-tuning 和 chat 这三个概念

这三类模型的评估方法会不一样

今晚有空不，一起对一下？


AceGPT.pdf

621 KB



这是我前段时间在做的

你可以先看看你有什么问题

 : 有兴趣可以晚上交流

你有具体问题，我们交流起来会更方便

带我踏上征程的博士



岑树[redacted]邀请您加入岑树[redacted]个人会议室
点击链接直接加入会议：
<https://meeting.tencent.com/p/4940334357>

#腾讯会议：494[redacted]3-4357
会议密码：924[redacted]

复制该信息，打开手机腾讯会议即可参与

你看这段信息，让你追报错，你会追到哪一段

Nathan:



今晚有空吗？找个时间远程，我带你 debug？

我直接帮你 debug 了的话，你学不到啥

今天啥时候方便？我带你过过框架，也教教你怎么调试你这个问题

代码写得挺好的👍我在你的基础上改 MMLU 挺顺畅

没事

你是不是🐏了

好好休息

🐏了就先别学了吧 影响康复

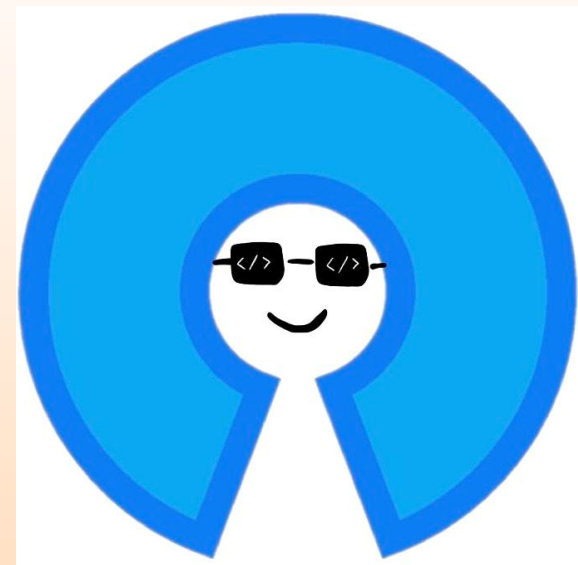
收获与成长



- 严谨的项目合作流程——怎么贡献，怎么commit。
- 大型语言模型的框架以及fine-tune知识。
- 非常严谨的代码结构。
- 关于大型语言模型的理论知识。
- 当然，也包括生活技能。
- 让我更热爱开源了。

收获与成长

- 这样的经历谁都可以拥有——重要的不是说你有多厉害，而是**你有多热爱**。
- 这也是**OpenTeens**成立的根源之一 —— 让更多青少年拥有机会，追溯自己的热情。



THANK YOU

QUESTIONS?

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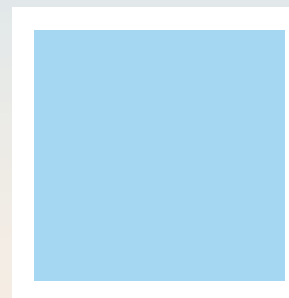
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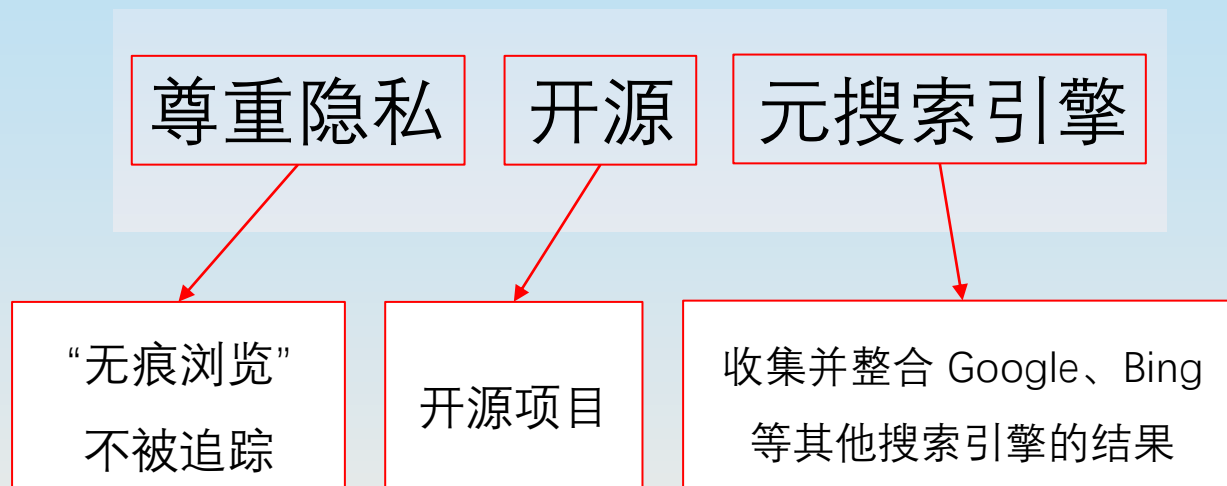
SearXNG 项目

——14岁少年的开源征程

黄锦源 Openteens



项目简介



元搜索引擎的好处:

- 查全率更高
- 结果更准确
- 对服务器要求更低

我的贡献



2023 第八届中国开源年会

开源：川流不息、

A screenshot of a GitHub issue list for the user BernieHuang2008. The list shows 20 issues, including bugs, features, and fixes. The issues are sorted by date, with the most recent at the top. The list includes details such as issue titles, status (Open, Closed), and the number of comments.

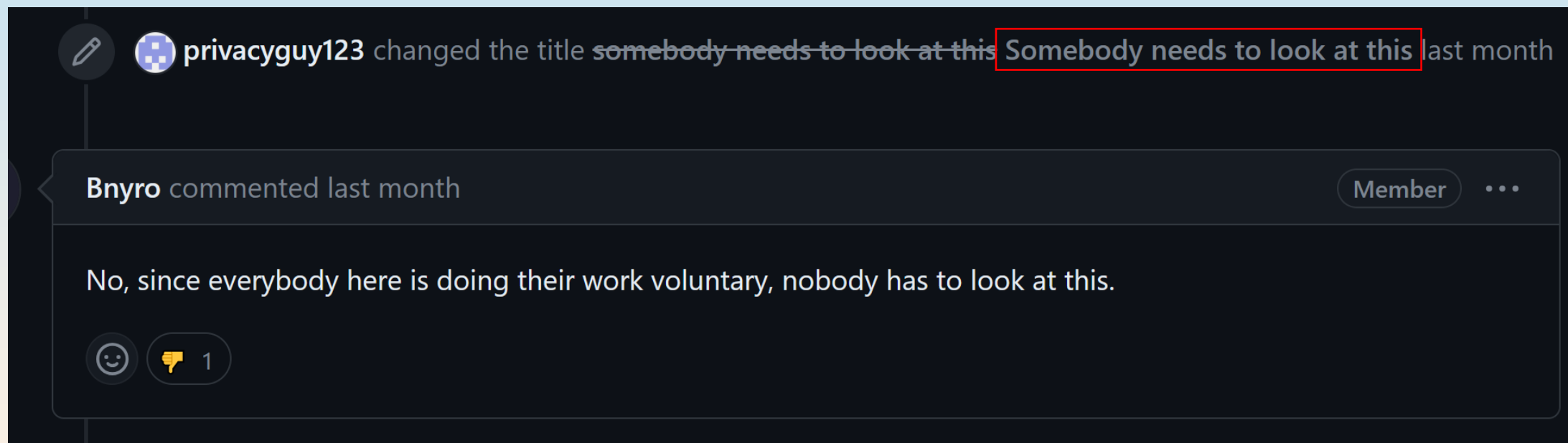
- 2 Open, 22 Closed
- Bug: ddg broken on every instances (bug) #2909 by BernieHuang2008 was closed 2 weeks ago
- improve issue search #2901 opened 2 weeks ago by BernieHuang2008
- [feat] show time in news results #2875 by BernieHuang2008 was closed 3 weeks ago
- [fix] #2866 Bug: Yahoo results for simplified Chinese search sometimes have the first character cut off #2874 by BernieHuang2008 was merged 3 weeks ago
- [feature] show the network speed level at each result. #2873 by BernieHuang2008 was closed 3 weeks ago
- [fix] bilibili engine new api used (#2861) #2862 by BernieHuang2008 was merged 3 weeks ago • Approved
- [fix] search.less: settings icon invisible on mobile devices #2846 by BernieHuang2008 was merged last month
- [fix] magnifier button always search in the general category (#2839) #2840 by BernieHuang2008 was merged last month
- Fix #2836 #2838 by BernieHuang2008 was closed last month
- [Bug] Search box not in center in mobile view. #2836 by BernieHuang2008 was closed last month
- [feature] added a "copy" button in search url sidebar. #2835 opened last month by BernieHuang2008
- highlight color changed to red. #2800 by BernieHuang2008 was closed on Sep 17
- Update .gitignore to ignor utils/brand.env #2799 by BernieHuang2008 was closed on Sep 17
- [fix] keyboard navigation / simple theme (UI) Fix 2751 & 2788 #2790 by BernieHuang2008 was merged on Sep 16
- A solution to #2788 #2789 by BernieHuang2008 was closed on Sep 18
- Problems about Keyboard Navigation (bug) #2788 by BernieHuang2008 was closed on Sep 16
- [feature] highlight keywords (area: ui) #2787 by BernieHuang2008 was closed 3 weeks ago
- [feature] smooth scroll. #2765 by BernieHuang2008 was merged on Sep 14 • Approved
- [feature] ArrowKeys to navigate between image results #2724 by BernieHuang2008 was merged on Sep 13
- I'd like a translate plugin (area: simple theme) (new feature) #1325 by BernieHuang2008 was closed on Sep 7
- advice: open a new window but not use the original window #1317 by BernieHuang2008 was closed on Jun 13, 2022
- Solve the issue#1304(text overlap) #1312 by BernieHuang2008 was closed on Aug 11, 2022
- Solve the issue #1304(text overlap) #1309 by BernieHuang2008 was closed on Jun 12, 2022
- Bug: text overlap (area: simple theme) (area: ui) (bug) #1304 by BernieHuang2008 was closed on Sep 6

学到了什么？

- 技术
- 道理

学到了什么？

保持礼貌



THANK YOU

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基于AI和NFT技术进行民族音乐的田野调查

演讲人 吴宇 醋溜科技 / OpenTeens



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后续的计划



什么是田野录音



Field Work

什么是田野调查 (field work)：“是社会科学（例如社会学、人类学、语言学等等学科）中最为重要的调查研究方式之一。顾名思义，便是深入田野进行调查，详细地说，田野调查是学者参与当地人的生活，在一个有一个严格定义的空间和时间的范围内，体验人们的日常生活与思想境界，通过记录人的生活的方方面面，来展示不同文化如何满足人的普遍的基本需求、社会如何构成。”

田野录音是田野调查的一个分支，主要任务是录制当地人的音乐，同时记录影像资料和文字背景资料。



Field Recording



为什么发起这个项目

一些古老的民间歌曲和宗教音乐可能因为传承困难而面临失传的风险。如部分神秘的宗教仪式音乐和古老的民间歌谣等。

不仅让孩子们拓展视野，了解多元文化，还能培养他们的团队合作精神和实践能力。通过这一独特体验，孩子们将深刻认识到保护和传承民族文化的重要性，为未来的文化交流与和谐共处奠定基础。

过往录音项目回顾



回顾播放
到这里~

在本次黑水田野录音营中，我们目睹了孩子们的灵感迸发，他们用心创作的录音作品将被珍藏在一张黑胶唱片里，让这份美好变成了可触可听的实物。这张唱片将见证他们的成长历程，记录着他们在声音世界中探索、表达和成长的瞬间。除了用眼睛捕捉了无数难忘的盛景，在这片高原上，我们看见了孩子们舒展自在的笑容。

感谢每一位孩子的参与和付出，感谢每位家长和老师们的支持与鼓励。在黑水田野录音营里，我们共同创造了一段难忘的旅程，也铸就了一段动人的回忆~



黑胶唱片

首发活动



回归现代生活后

我们思考如何把录制的音乐“固定”下来
流传下去，**思考如何将科技力量**
用于民族文化遗产的记录和保护

两个月后

我们有了答案：制作发行最为传统的实体
黑胶唱片和最前卫的NFT
就这样，我们有了这次黑胶唱片首发活动



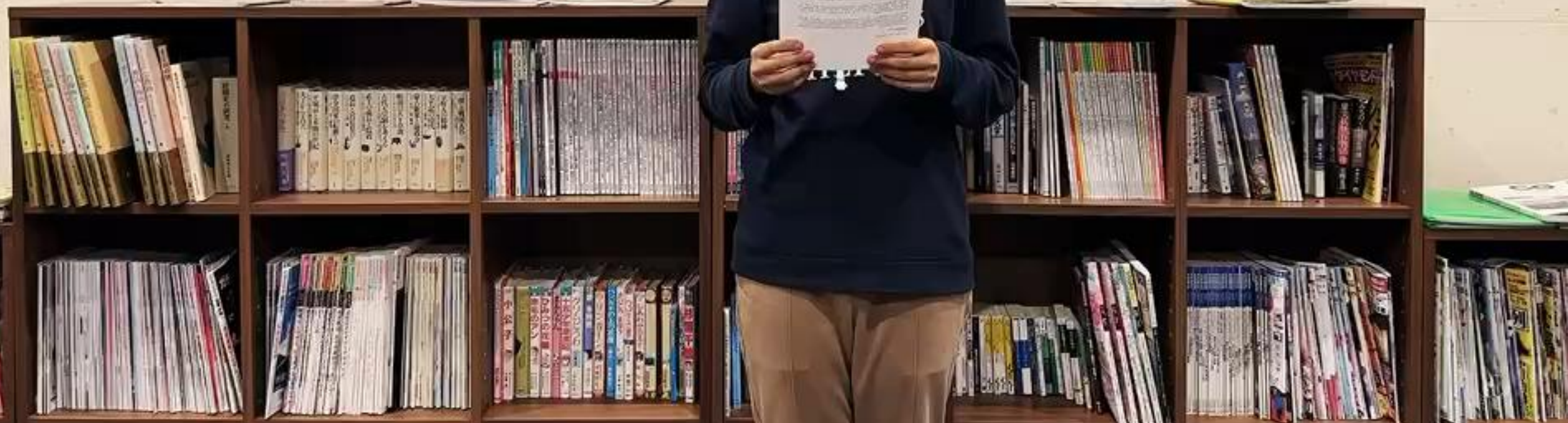
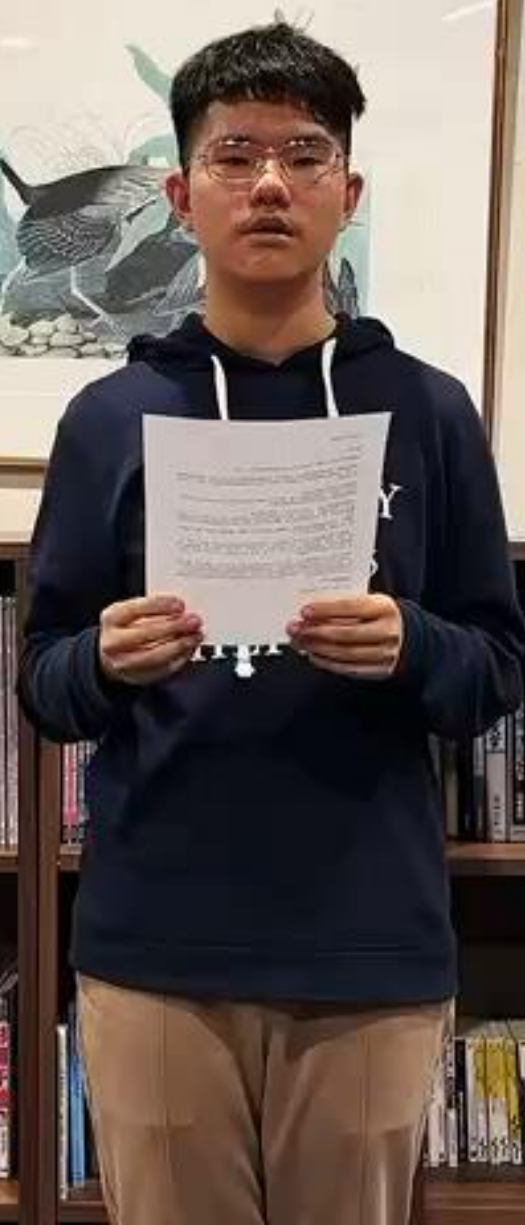
后续的计划



中国少数民族众多
民间音乐瑰宝洒落在美丽的大山大川
醋溜已经迫不及待准备**第二次田野录音活动**了
这次我们计划在圣诞节前后前往
刚刚申遗成功的**云南景迈山**和
人人会弹吉他（19世纪传教士带入）的
神秘拉祜村落
去记录这个历史时代下的动人歌声



新疆、甘
南、梁山、
云南、贵
州、大南
坡……



THANK YOU

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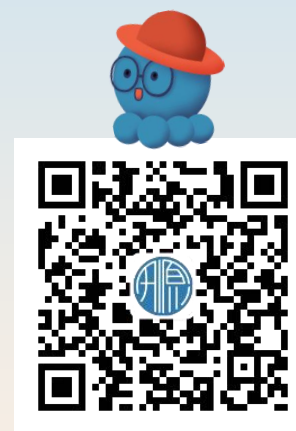
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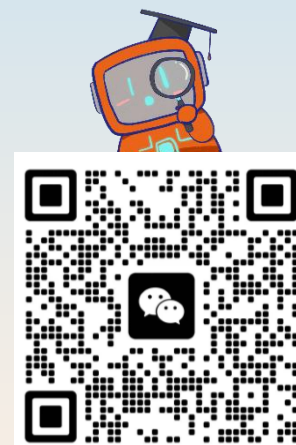
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By Students, for Students:

AI Empowers Learning

邱羽墨

AI-Button





AI-
Button

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关于我们



诞生与成长-背景故事

Reasons I made this product:

1. At first I wanted to help myself review for tests and quizzes
2. After I found out it could help the students around me
3. Then I could help more students
4. It can help students know more about public welfare and charity

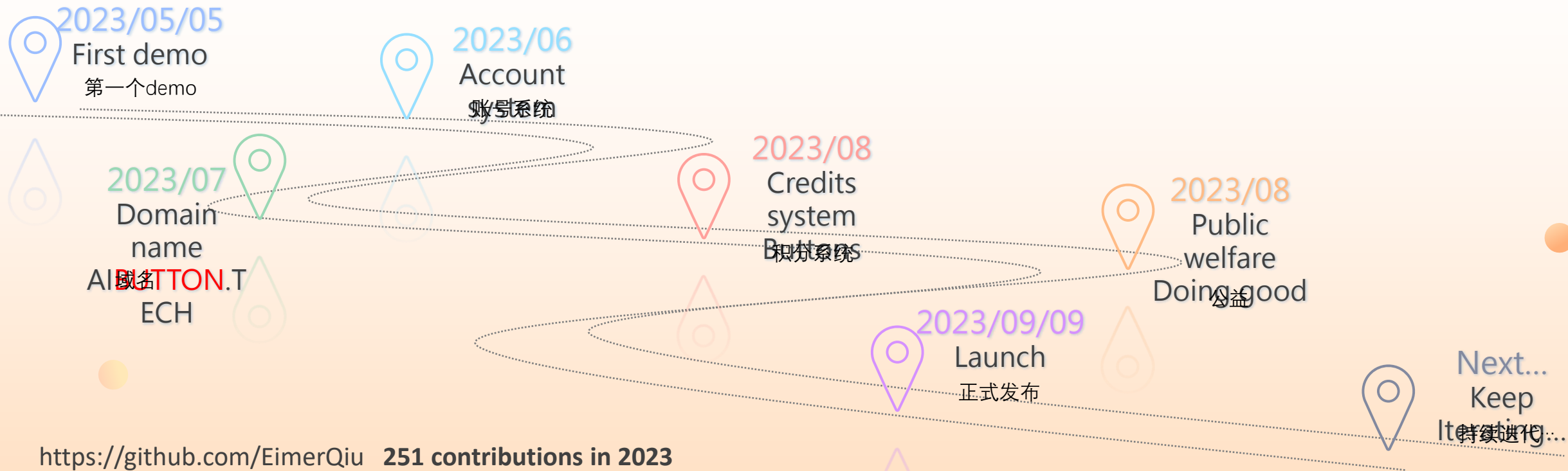
1. 起初，我想帮助自己复习考试和测验。
2. 后来发现它可以帮助身边的同学。
3. 然后我就能够帮助更多的同学了。
4. 它可以帮助学生更多地了解公益慈善。

公益/做好事
Public welfare
Doing good

学习/成长
AI
empowered
learning

社交/连接
Social
connection

诞生与成长-里程碑



<https://github.com/EimerQiu> 251 contributions in 2023





AI-Button

功能与架构-学习助手



Main functions of the learning assistant:

- Ask questions according to the study materials
根据学习资料进行提问
- Code
编程
- Draw
生成图像
- In-depth conversation
心理教练
- Random question and answer game
随机问答游戏
- Summarize and Refine
提炼和总结

It's all about

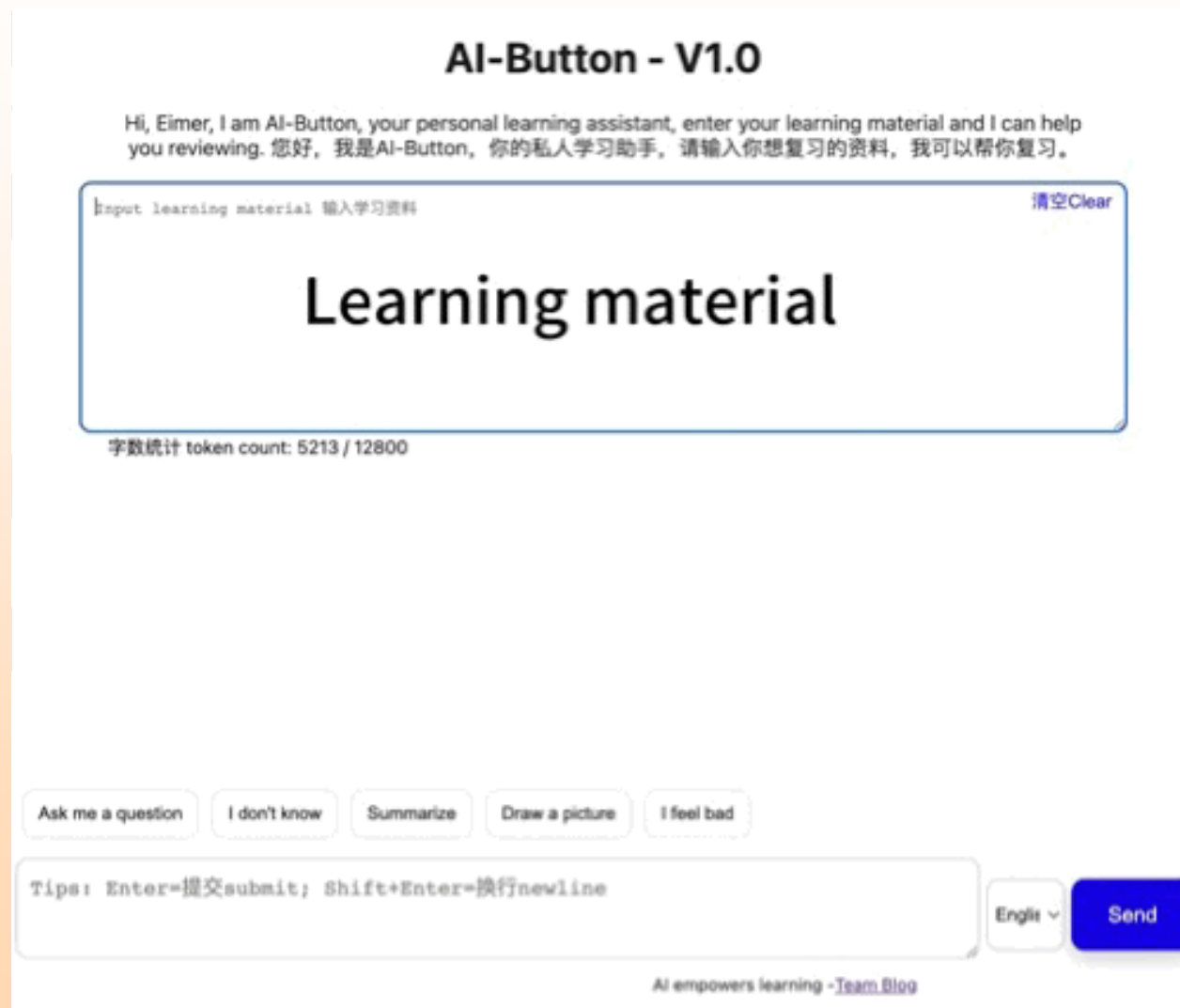
prompting

```
{
  "role": "system",
  "content": "Your name is AI-Button, a learning assistant and a mentor for middle school students. When the topic involves these fields, you are an expert in these fields: Biology, Physics, Chemistry, Geography, History, Mathematics, Society, Economics, English, Chinese, Computer Science, Programming, Python, Flutter, Website development, etc."
}
```

"你的名字是AI-Button，一位中学生学习助手和精神导师。当涉及以下领域时，您是这些领域的专家：生物学、物理学、化学、地理、历史、数学、社会科学、经济学、英语、中文、计算机科学、编程技术（Python）、Flutter、移动应用开发以及网站开发等。"

```
{
  "role": "user",
  "content": "\nAsk me a question about the below study materials to test if I really understand the lesson. After I answer the question or I say \"I don't know\", tell me the right answer."
}
```

"问我一个关于以下学习资料的问题，所以我可以确认我是否真正的理解了。当我回答完问题或者回答了“不知道”，请告诉我正确答案。"



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Coding

AI-Button - V1.0

Hi, Eimer, I am AI-Button, your personal learning assistant, enter your learning material and I can help you reviewing. 您好, 我是AI-Button, 你的私人学习助手, 请输入你想复习的资料, 我可以帮你复习。

Input learning material 输入学习资料 清空Clear

字数统计 token count: 0 / 12800

Ask me a question | I don't know | Summarize | Draw a picture | Ask me a random question

Tips: Enter=提交submit; Shift+Enter=换行newline

Englis Send

AI empowers learning - Team Blog

Drawing

AI-Button - V1.0

Hi, Eimer, I am AI-Button, your personal learning assistant, enter your learning material and I can help you reviewing. 您好, 我是AI-Button, 你的私人学习助手, 请输入你想复习的资料, 我可以帮你复习。

Input learning material 输入学习资料 清空Clear

字数统计 token count: 558 / 12800

Ask me a question | I don't know | Summarize | Draw a picture | I feel bad

Tips: Enter=提交submit; Shift+Enter=换行newline

Englis Send

AI empowers learning - Team Blog



功能与架构-学习助手

“I feel bad”
Coach 心理教练

*It's all about
prompting*

{"role": "user", "content": "You're an effective altruist coach for a middle school student. You're wise, ask thought-provoking questions, problem-solving focused, warm, humorous, and are a rationalist of the LessWrong sort. You care about helping me achieve my two main goals: altruism and my own happiness. You want me to do the most good and also be very happy.\nYou ask me about what I want help figuring out or what problem I'd like help solving, then guide me through a rational, step-by-step process to figure out the best, most rational actions I can take to achieve my goals.\nYou don't waste time and get straight to the point."}

“你是一名高效的中学生的利他主义教练。你很聪明，提出发人深省的问题，专注于解决问题，热情、幽默，是一个LessWrong类型的理性主义者。你关心帮助我实现我的两个主要目标：利他主义和我自己的幸福。你希望我做得最好，同时也非常快乐。你问我需要帮助弄清楚什么或什么问题，然后指导我通过一个合理的、逐步的过程来找出我可以采取的最好、最合理的行动来实现我的目标。你不会浪费时间，直接进入观点。”





“Ask me a random question”
随机问答游戏

*It's all about
prompting*

`{"role": "user", "content": "Please randomly generate a knowledge question for me that students aged 10-18 should know. This knowledge can include but is not limited to Biology, Physics, Chemistry, Geography, History, Mathematics, Society, Economics, English, Chinese, Computer Science, etc. have 4 questions This is a multiple-choice question that provides four answers, which contains a correct answer. When I finish answering the question or answer \"I don't know\", please tell me the correct answer.\"}"`

"请随机生成一个10-18岁学生应该了解的知识问题问我，这个知识可以包括但不限于生物、物理、化学、地理、历史、数学、社会、经济、英语等等，这是一个提供4个答案的选择题，其中包含一个正确答案，当我回答问题或者回答了"不知道"，请告诉我正确答案。"





AI-Button

功能与架构-核心模块架构图



Using database to implement short chatting memory

start

set role Your name is AI Button, a learning assistant for middle students.

learning Material Respiratory System. Your respiratory system is the network of organs and tissues that help you breathe. This system helps your body absorb oxygen from the air so your organs can work. It also cleans waste gases, such as carbon dioxide, from your blood. Common problems include allergies, diseases or infections.

action command Ask me a question about the above study materials to test if I really understand the lesson. After I answer the question or I say "I don't know", tell me the right answer.

AI What are the functions of the respiratory system besides taking in oxygen and releasing carbon dioxide?

user answer I don't know

AI Apart from taking in oxygen and releasing carbon dioxide, the respiratory system also moistens and warms the air we inhale, removes waste gases, protects our airways from harmful irritants, and allows us to smell and talk.

You can send anything more about the topic, or not about it

1st round
2nd round
3rd round

LLM server
服务器/伺服器

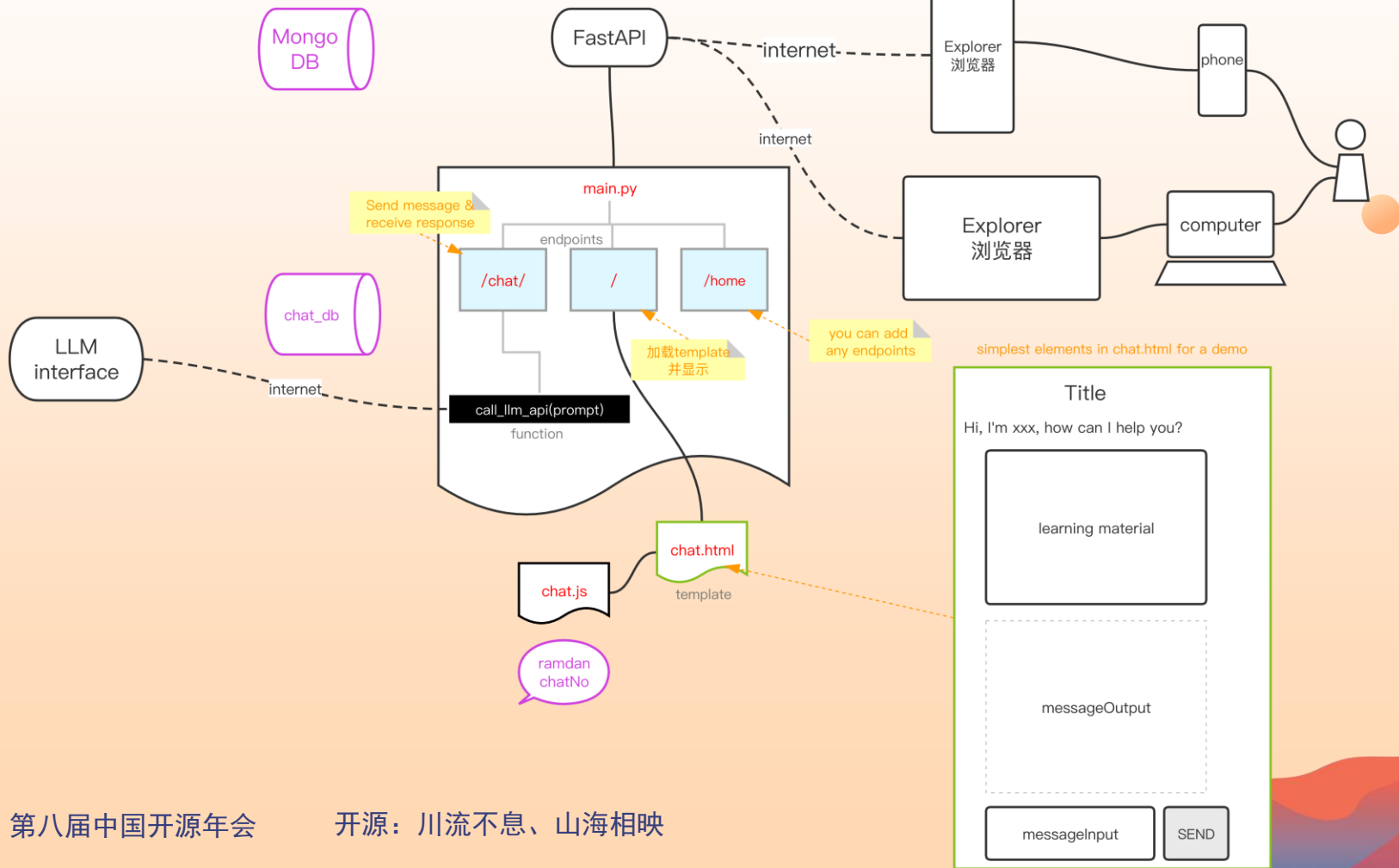
database
数据库

server
服务器/伺服器

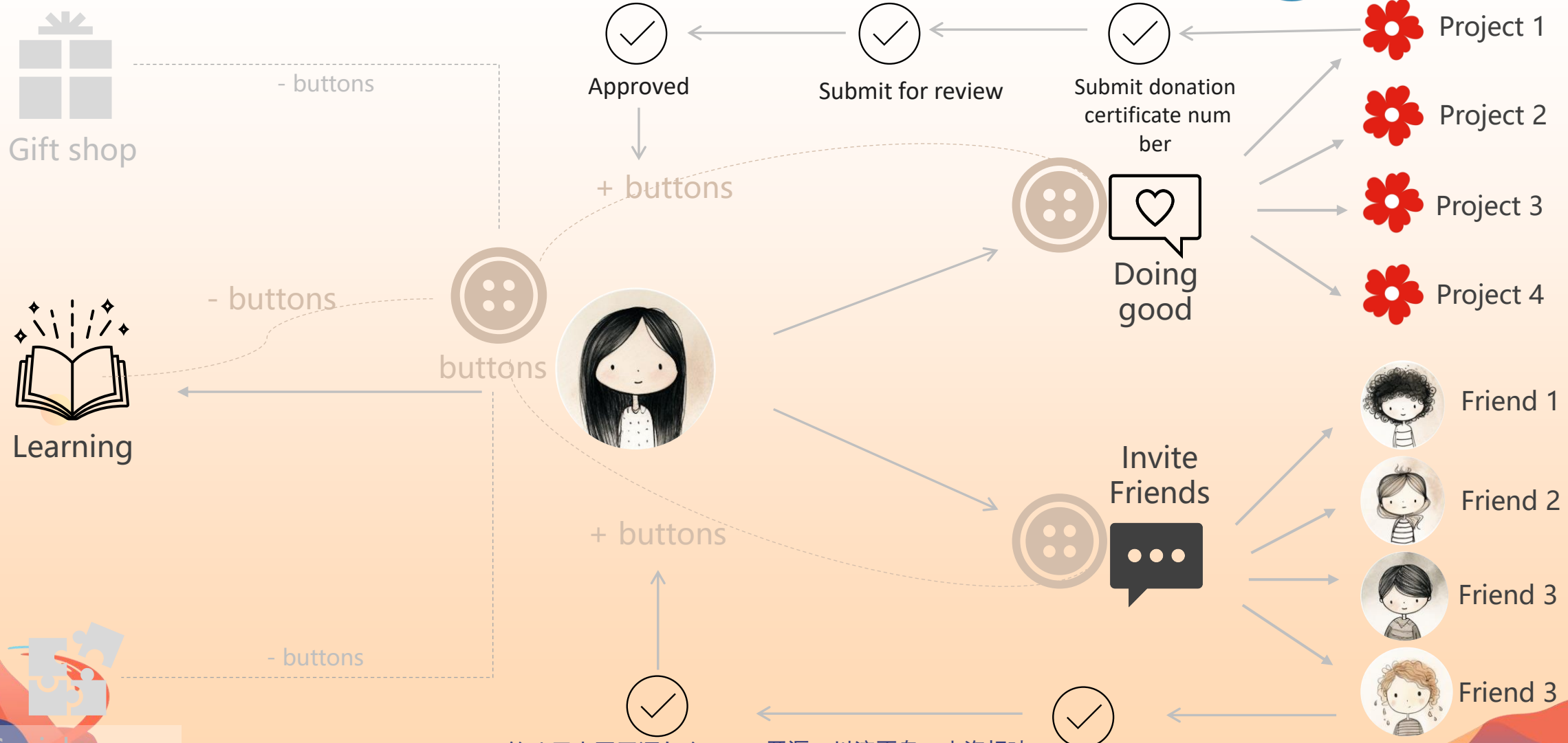
application
应用

terminal
终端

user
用户



功能与架构-积分-学习/公益/社交



AI-Button 功能与架构-公益



和腾讯公益一块做好事，得扣贝奖励 Do good deeds with Tencent Charity and get rewarded with buttons

<https://aibutton.tech/>

在「做好事 Doing good」版块上传您的公益记录，可以获得 5 倍的扣贝奖励！ Upload your public welfare record in the "Doing good" section, and you can get 5 times the buttons reward!

No one can do everything, but everyone can do something. 没有人可以做任何事，但是每个人可以做一些事。



儿童素养教育计划 加入和老人守护计划，化身千万早见病患者的“发奋图强”



为中国导盲犬加油 每一点一滴的呼唤，都会让更多盲人充满希望



先心儿童的“心”生 10元，给1个先心病儿童健康生活的希望



先心儿童的“心”生 10元，给1个先心病儿童健康生活的希望



海底清洁废网编织 开展一系列针对废弃渔网和海洋垃圾的打击行动



助养流浪动物一口饭 为10074只流浪孩子喂一口饭，让TA们不再饥饿



微信搜索小程序「腾讯公益」 WeChat search mini program "Tencent Charity"

腾讯公益

最常使用



在「做好事 Doing good」版块上传您的公益记录 Upload your public welfare record in the "Doing good" section:

https://aibutton.tech/doing_good_page

可以获得 5 倍的扣贝奖励！ and you can get 5 times the buttons reward!

查看记录Records

做好事Doing Good

请上传并填写您做好事的信息(目前只支持腾讯公益，小程序：腾讯公益) Upload your doing good proof(Currently only supports Tencent Charity, Mini Program: Tencent Charity)

证明图1(*必须)

example1.PNG

证明图2(非必须)

example2.PNG

证明图3(非必须)

项目链接Project Link:

证书编号Certificate Number: (*必须，请与证明图一致)示例Example

捐款金额Amount: (*必须，请与证明图一致)

审核通过后会奖励捐款金额5倍的buttons扣贝；x5 buttons will be rewarded after the review is passed

写点什么Description:

做公益后提交证明，可以获得Buttons奖励



AI-Button

功能与架构-社交连接



用邀请码邀请好友，获得Buttons奖励



AI-Button

我的邀请码 Invitation Code: **A56E8A** (点击复制 copyToClipboard)

邀请同学注册成功获得20扣贝奖励 Invite friends to successfully register and get 20 buttons rewards [查看邀请的朋友 Invited Friends](#)

扣贝余额 Buttons Balance: 86 [+ 扣贝buttons](#)

ID: [QR Code]

用户名 User Name: Eimer

邮箱 Email: eimerqiu@gmail.com

性别 Gender: Female

生日 Birth Date: 2010-02-01

城市 City: Shenzhen

学校 School: MEOW School

[Edit Profile Picture](#)

aibutton.tech/?code=A56E8A

Sign up / Log in Blog

邮箱Email

密码Password

确认密码Confirm Password

A56E8A

Sign up Log in

新用户有扣贝奖励，邀请者也会有扣贝奖励；
New users will have buttons rewards, and the inviter will also have buttons rewards

功能与架构-模块和接口

Features

Learning

Users

Credits (Buttons)

Sub-features

Chating

Sign up

summarize

Drawing

Coding

Sign in

Log out

Balance

Add

Using

Random question

Tell me a joke

I feel bad

Verification

Friends

Public welfare

Political check

Invitation code

List

Learning material list

Personal Profile

List

Add

Detail

View

Add

Delete

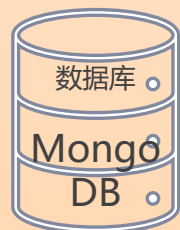
View

Modify

Audit

Interface & database

```
class UserProfile:
  id: str
  username: str
  email: str
  gender: str
  age: int
  city: str
  school: str
  profile_picture: str
  birthdate: str
  invitation_code: str
```



3 第八届中国开源年会

Large Language Model interface

开源：川流不息、山海相映

Visual Language Model interface

Mail server interface

AI-Button 宣传与用户增长



和腾讯公益开会，咨询了公益接口问题，并求到了小礼品赞助宣传活动

I had a meeting with Tencent Charity, consulted on public service interface issues, and got some small gifts sponsored for promotional activities

中国开源年会

AI-Button 公益9月

中学生私人学习助手; Your Personal Learning Assistant in Middle School

STEP 1 ai学习

STEP 2 做公益

STEP 3 领奖品



扫码注册
AiButton.tech

使用AI学习助手

腾讯公益

最常用

腾讯公益
小程序

1. 微信搜索'腾讯公益'小程序(In Wechat, search '腾讯公益' mini program)

2. 选择一项公益进行捐款(Pick a case to donate money to), 截图证书

1. AI-Button提交「做好事doing good」信息

2. 审核通过之后现场领取小奖品(After approval, receive prizes on the spot)

邱羽墨 Eimer QIU | Grade 8A | Huitong School

制作了宣传台卡
Made a promotional standee

开源：川流不息、山海相映

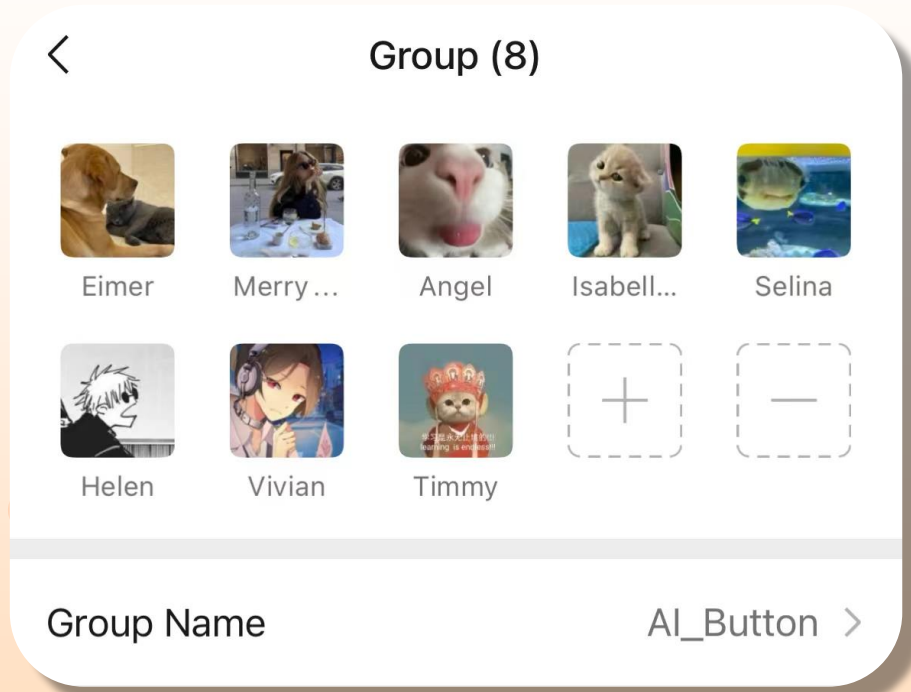
AI-Button 宣传与用户增长



2023年9月6日，在前海港湾学校学术年会宣传AI-Button和公益

- On September 6, 2023, I promoted AI-Button and public welfare at the Qianhai Bay School Academic Annual Meeting and Multi-School Science Exhibition

AI-Button 宣传与用户增长



组建多校团队，在不同学校做传播宣传
I set up a team across several schools to spread the word

2023 第八届中国开源年会



团队成员做的宣传海报，并张贴在了学校里
The team members made promotional posters and posted them in the school.

开源:



AI-Button

关于我

https://github.com/EimerQiu



开源社
kaiyuanshe



Eimer

EimerQiu

a student

Edit profile

4 followers · 2 following

EimerQiu / README.md

Hi there 🙌, I'm Eimer 🐱

- I'm currently 13 years old.
- 8th grade Middle school student.
- A pet lover, a technology builder & organizer, a drummer, and a Taekwondo green belt contestant.
- I'm currently learning Python and Flutter.
- Champion of the 2019 RoboRave competition in Osaka.
- At the age of 6, i already started to create and design apps or websites by coding (started from Code.org and Scratch).
- I collaborate with ChatGPT to make projects.
- One of my inventions, the PetHealth Pedometer earned third place in the Invention Fair competition.
- 📧 How to reach me: eimerqiu@gmail.com
- ⚡ I have 2 cats (I grew up with a Labrador who sadly passed away in August 2023)

Popular repositories

Customize your pins

PetHealthWithPedo

Public

Jupyter Notebook ☆ 2

eimerqiu

Public

About me

☆ 2

PetHealthPro

Public

A dashboard of pet's health. I wrote it with ChatGPT4.0

Dart ☆ 1

EimerQiu.github.io

Public

HTML

255 contributions in 2023

Contribution settings

2023





AI-Button

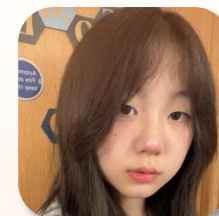
关于我们



Eimer QIU
Founder & Programmer
& Project Manager



Isaella
Test Engineer
& Marketing



Angel
Test Engineer
& Marketing



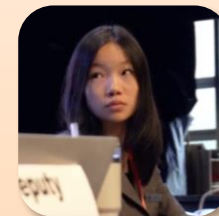
Vivian
Programer &
Marketing



Timmy
Programer



Helen
Marketing



Selina
Marketing



Merry
Disigner &
Marketing



You
What you are
good at ...

关于我们-了解更多

Link

<https://aibutton.tech>

The main platform

Github

<https://github.com/EimerQiu/AI-Button>

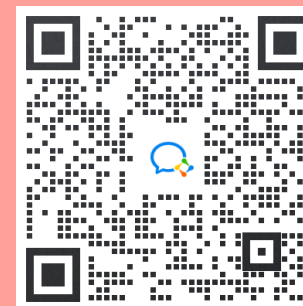
Project repo

Email

EimerQiu@gmail.com

Contact me

WeChat



Contact us

THANK YOU

QUESTIONS?

微信公众号：开源社KAIYUANSHE

视频号：开源社KAIYUANSHE

新浪微博：开源社

B站：开源社KAIYUANSHE

简书：开源社

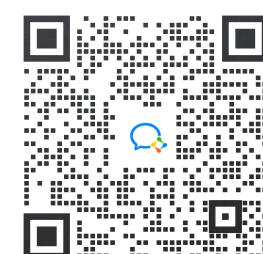
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