Examining the Efficacy of LLMs in Comprehending Homophones

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Abstract

The idea of this work is inspired by censorship in social media. Social media users use manually created homophone words to bypass censorship. In this paper, we built testsets of manually created homophone words in different languages, and evaluate LLMs ability to comprehend sentences with such homophones.

Few work focus on homophone words in text, and no previous study was focusing on manually created homophone words. This paper is the first one to study LLMs' ability in recongnizing manually created homophones in dialogue.

1 Introduction

Homophone words are words that spells different, means different and sounds similar. For example, the word 'night' and 'knight' are a pair of homophone words. The phenomenon of homophone is rare in English, however, for certain language, like Chinese, homophones are very frequent and can be easily created.

Censorship is common in social media, and social media users sometimes manually create homophone words to bypass censorship. As an example, if the word 'control' is banned, users can instead use a word like 'kentroll', a word sounds as similar as possible to 'control' and at the same time spells as different as possible, to bypass censorship.

The idea of this paper is inspired by such clever trick social media uses take advantage of. In this paper, we built 3 testset, in Chinese, English and Spanish, respectively. Each testset include 100 examples, and an example includes a sentence, a word, an answer, and records of the correctness of some LLMs' answer to the homophone recognition question generated from this example.

We run the testset on GPT-3.5, GPT-4 classic, Ernie-3.5 and Ernie-4.0. We discovered that GPT-4 performs the best on all 3 testsets. The 2 Chinese built models, Ernie-3.5 and Ernie-4.0, have similar performance, with Ernie-4.0 performs slightly better tha Ernie-3.5. Both Chinese built LLMs perform better than GPT-3.5 for Chinese testset. However for Spanish testset, the 2 Chinese built models perform extremely bad. GPT-3.5 performs ok on English testset and Spanish testset, but performs poorly on Chinese testset.

The testsets are created in .csv format. All testsets and related files can be found on Github [1].

2 Related Works

We didn't find much helpful related works. Most papers in this area focus on recognizing homophone words in voice chat, other than text chat.

3 Baseline

We measure LLMs' ability to comprehend homophones by accuracy of question-answering. The questions are carefully designed so that there's no direct clue of correct answer in question. The baseline is randomly guess a word. There are about 30,000 commonly used English words, so a random guess has accuracy $\frac{1}{30,000}$, which is close enough to zero. The logic of Chinese and Spanish testsets are similar. So, any accuracy above zero means that the LLM have some understanding of these homophone questions.

4 Data Usage

This work does not rely on any external database. All the data in testsets and code in scripts are written by co-author Clair Ross and Nuoqi Liu.

5 Contribution

In this work we discover a new problem to solve, that is comprehending manually created homophone words in text dialogue. We proposed a method to measure LLM's ability to understand homophones. And we created a testset for such measurement. We are the first to study the performance of a few state-of-the-art LLMs in a few languages. Also we propose some known issues in our methods, shed light on future study in this area.

6 Details of Implementation

6.1 Format of testset

In this work we implement 3 testsets, in Chinese, English and Spanish respectively. An example row in English testset includes a sentence, a word and an answer. Table 1 shows a few examples.

Table 1: Examples of testset_english.csv

sentence	word	answer
The drywer is drunk	drywer	driver
I want a marshrum burger	marshrum	mushroon
Cat is one kind of maimol	maimol	mammal
The san is so shiny today	san	sun
She has furtell imagination	furtell	fertile

In each row, one word in the sentence makes little sense literally and is actually a manually created homophone. The column 'word' indicates explicitly which word is homophone. The column 'answer' gives the original word of the manually created homophone.

For Chinese and Spanish testsets, the format is a bit different. A new column 'answer_english' is added, indicating the English translation of correct answer. This is for the convenience of non-native Chinese and Spanish speaker to easily use the testset.

6.2 Creation of Testset

All 3 testsets are created manually. Each testset includes 100 human written sentences and human created homophones. The homophones are aimed to spell as different as possible from original word, and at the same time sounds as similar as possible.

6.3 Ouestion Generation

For each example in one testset, a corresponding question needs to be generated, as the input of LLM chatbot. The question is asked in English, regardless of which testset it is generated from. Take Spanish testset as an example. Suppose the sentence is

Quiero ir ha todos los festivales estacionales con mis amigos este verano And the homophone word is "ha", the question will goes as

In the sentence 'Quiero ir ha todos los festivales estacionales con mis amigos este verano', the word 'ha' is a homophone word, can you tell its true meaning?

In the Github repository of this project, a python script "input_generation.py" implements this procedure.

6.4 Running the Test

The test goes in a zero-shot manner. The question is the only input, no extra information or rules explanation is presented to the model. Each question of answering pair happens in a new session. The correctness of an answer is judged soly by if it contains the correct answer. For English testset, it means a correct should contain the original word. For Chinese and Spanish testsets, an answer is marked as correct by containing either the original word in English or Chinese & Spanish, respectively.

7 Results

7.1 Final Results

The accuracy of each model on each testset is shown in Table 2:

Table 2: Accuracy of LLMs' answers on testsets

	Chinese	English	Spanish
GPT-3.5	$28\% \pm 4.5\%$	$63\% \pm 4.8\%$	63%±4.8%
GPT-4	$60\% \pm 4.9\%$	90%±3.0%	82%±3.8%
Ernie-3.5	$50\% \pm 5.0\%$	$62\% \pm 4.9\%$	6%+?%
Ernie-4.0	$63\% \pm 4.8\%$	83%±3.8%	10%+?%

7.2 Comments on Results

Accuracies are calculated based on number of correct answers out of 100 questions, so all the results are integers. Ernie-3.5 and Ernie-4.0 crashes when the input contains too much Spanish, so they got very low accuracy in that scenario.

GPT-4 generally performs the best in all scenario. Ernie bots are developed by a Chinese company, and they performs fine on Chinese testset, as expected. Chinese questions are generally more difficult than English and Spanish quesitons, for that there's no clue in the spell for Chinese homophone words, which coincide with the results that

all models tested got lower accuracy on Chinese testset. GPT-4 outperforms GPT-3.5 by a lot, and Ernie-4.0 only outperform Ernie-3.5 by a little bit.

8 Error Analysis

Accuracy is measured by numbers of correct answer out of 100 questions, thus it follows binomial statistics distribution. For binomial statistics distribution, the average value is p and the standard deviation is $\sqrt{np(1-p)}$. Estimation of error shown in table 2 is calculated based on this formula.

For Ernie-3.5 and Ernie-4.0 in Spanish, however, previous error estimation technique is not applicable. Ernie chatbot is overall weak on Spanish and crashes a lot when long series of Spanish text is inputed. As a result of crash, Ernie bots got extremely low accuracy on Spanish testset. It is hard to tell Ernie's true ability to comprehend Spanish homophone, still we believe the true accuracy shall be some value much higher than those shown in table 2.

9 Other Findings

Although methods to improve LLM's ability to comprehend homophones is not the main focus of this paper, we did find a few simple methods that may help.

9.1 Forced Answer

The most common type of error LLM makes is refusal. It claims that there's no enough context or information, so it cannot give an answer. However, simply ask the same question again, and it may gives a correct answer. In the below example, it takes twice asking that GPT-3.5 gives a correct answer.

Me: In the sentence 'I want a marshrum burger', the word 'marshrum' is a homophone word, can you tell its true meaning?

GPT-3.5: It seems like "marshrum" might be a misspelling or a made-up word. Without any context or known definition, it's hard to determine its true meaning. If it's a homophone for another word, it might be a creative way of saying something else. Can you provide any additional context or clarify if it's a term you've encountered elsewhere?

Me: In the sentence 'I want a marshrum burger', the word 'marshrum' is a homophone word, can you tell its true meaning?

GPT-3.5: Ah, I see what you're getting at! In this case, "marshrum" is likely a playful or intentional misspelling of "mushroom." A mushroom burger would typically contain mushrooms as one of its main ingredients. So, in this context, "marshrum" is a homophone for "mushroom," used humorously or creatively.

Of course, sometimes this simple trick will not work. Also, sometimes it gives a wrong answer after repeated requests.

10 Known Issues

10.1 Clues from the context

Nothing prevents the model to answer these questions based only on context, but not on pronounce of homophone words. Sometimes the model answers explicitly that it find the correct answer based on context. Also sometimes the model declares how it reasons to find an answer, and the way it shows has nothing to do with sounds and pronounces.

10.2 Clues from the spell

For English and Spanish, it is almost impossible to manually create a homophone word that spells totally different and sounds similar to the original word. Sometimes the edit distance between homophone word and original word is only 2 or 3, and nothing prevent LLM to find original word based only on edit distance based typo correction. Sometimes LLM answer explicitly that it find the answer by examing the spell.

As a comparison, for Chinese words, it is very easy to find an another word that differ in every letter and sounds exactly the same. For the Chinese testset, all the homophone words are carefully created in this style, so there's no hint in the spell at all. And we did see a clear drop of accuracy, when a same model comes from English or Spanish to Chinese testset. An exception is Ernie, it is overall weak in Spanish language, and the accuracy is higher for Chinese, but that is another story.

10.3 Multiple Answers

Another issue is that no measurement is there to stop model from guessing many answers. Although in practice, usually the model will not guess a lot of answer. In most cases, it gives either one answer or no answer at all. In some rare cases (about 5% chance) it will gives 2 or 3 answers, one of them can be correct, and the other answers are ridiculously wrong.

10.4 Overall weak Model

There's another issue when testing both Ernie-3.5 and Ernie-4.0 on Spanish questions. Ernie bots are overall weak in Spanish. It cannot handle long Spanish inputs and crash a lot. The extremely low accuracy for Ernie on Spanish is mostly due to such crash. The actually ability for Ernie series bot to comprehend homophones is expected to be higher than reflected by the accuracy in this paper.

11 Conclusion

In this paper, we proposed the concept of manually created homophones and point out the importance for LLM to recognize such expression. We defined a way to measure a LLM's ability to comprehend homophone expressions in dialogue. We build 3 testsets in Chinese, English, Spanish, respectively. We find out that GPT-4 performs well in all 3 languages, GPT-3.5 performs ok in English and Spanish but poorly in Chinese. Ernie-4.0 outperform Ernie-3.5 by a little bit, both performs ok in Chinese and English, but extremely poorly in Spanish. We realize some issue in our method, including hint in spell and context, and low accuracy due to overall weak performance.

12 Self Evaluation

We have accomplished most of the goals in project proposal. Although the testsets are only run on 4 models (We initially plan to run on 5), the utmost goal of our project, to define homophone recognition problem and implement a measurement method, is reached overall. It's a pity that we didn't find very effective methods to improve LLMs' homophone ability. Still, we got some interesting findings during the process, like forced answer trick. NLP appears as a formidable AI realm before we take this course, now we feel we know a starting point when facing an NLP problem.

13 Future Work

This paper only focus on examing LLMs' homophone ability, but haven't dive deep into techniques

to improve homophone ability. More work needs to be done in this area.

Manually creating test examples is slow and high cost. Techniques of automation for the whole process need to be developed.

More models and more languages needs to be tested, to get a better whole view of the question of homophone comprehension.

Acknowledgments

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References

[1] Clair Ross & Nuoqi Liu. CPSC-532V project. 2024. URL: https://github.com/ LNQ1997/CPSC532V-project.

A Sentence Modifications Data

A.1 English Sentences

The drywer is drunk Next Monday is a national howllydey The san is so shiny today I want a marshrum burger Intruders have destroyed the housepitle Cat is one kind of maimol This topic is trending on sowshow media Refugees seek shallter at school There's no sign of brickthrow for ceasefire talk He filled in a sirway about the protest The tryel is expected to last for 6 month He worries about possible whalelense in the street Two passengers are injured in the bus crash aksident An eight year old girl is the sole serwaiwor South Africa is one of the most diwylloped country in Africa developed / diwylloped
The san is so shiny today I want a marshrum burger Intruders have destroyed the housepitle Cat is one kind of maimol This topic is trending on sowshow media Refugees seek shallter at school There's no sign of brickthrow for ceasefire talk He filled in a sirway about the protest The tryel is expected to last for 6 month He worries about possible whalelense in the street Two passengers are injured in the bus crash aksident An eight year old girl is the sole serwaiwor mushroom / marshrum hospital / housepitle mammal / maimol social / sowshow shelter / shallter shelter / shallter trial / tryel trial / tryel Accident / aksident survey / sirway survivor / serwaiwor
I want a marshrum burger Intruders have destroyed the housepitle Cat is one kind of maimol This topic is trending on sowshow media Refugees seek shallter at school There's no sign of brickthrow for ceasefire talk He filled in a sirway about the protest Survey / sirway The tryel is expected to last for 6 month He worries about possible whalelense in the street Two passengers are injured in the bus crash aksident An eight year old girl is the sole serwaiwor
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An eight year old girl is the sole serwaiwor survivor / serwaiwor
The driver lost kentroll of the car control / kentroll
The boat caught fire after inpackt on a rock impact / inpackt
She has furtell imagination fertile / furtell
Flood has caused synnyfikent damage to this area significant / synnyfikent
Xia is the first dinicety of China dynasty / dinicety
News media usually describe him as a diktiter dictator / diktiter
Such naïve perspective shall only exist in kids' kognashion cognition / kognashion
Central control cisterm is down for 2 hours system / cisterm
China become a superpower in only a few deckiz decades / daikiz
They suspect he has done something creamanol criminal / creamanol
Drug trifaking is banned here trafficking / trifaking
You can get a callpen for purchasing this item coupon / callpen
My dad bout a land 20 years ago bought / bout
He tried to save every pani in his life penny / pani
They've been here the last wiik week / wiik
I need to attend a bezniss meeting in Guangzhou business / bezniss
The campaign lasted for one manse month / manse
Another foto of him is revealed later photo / foto
I've made a serious missdack missdack mistake / missdack
He think of seavirel methods several / seavirel
People wonder what is the last city he will kenkour conquer / kenkour
She once had a happy trip to Yijept Egypt / Yijept
She spend a whole weekend on reading metireal material / metireal
The company received a lot of rizeme this weak resume / rizeme
There are a lot of blike people living in this city black / blike
She wood rather find a new assistant would / wood
That assistant is experienced in working for selebraty celebrity / selebraty
She doesn't want to mention any exbeerinse about that day experience / ixbeerinse

She discovered that her idol is nothing like what she sout	thought / sout
The new philm is boring for most audience	film / philm
It seems as zow most people just ignore this problem	though / zow
She was accused for asalting her own employee	assaulting / asalting
The tension in the team is not a seacreate anymore	secret / seacreate
The existance of the sron is a mystery for centuries	throne / sron
Not ivorywon can accomplish such a goal	everyone / ivorywon
A lone wolf houwles beneath the full moon	howls / houwles
The closet is not a plays for lost toys	place / plays
Soft rain taps ahgaynst the windowpane	against / ahgaynst
Books transpurte us to different worlds	transport / transpurte
Stars twinkle in the mihdknyte sky above	midnight / mihdknyte
Coffee warms my hahndes on a cold morning	hands / hahndes
Time flys when you're having fun	flies / flys
Birds cherpe happily in the early morning	chirp / cherpe
The old oak tree provides shade in someher	summer / someher
Love blooms like a dellakit flower	delicate / dellakit
Dreams carry us beeyohnde reality's grasp	beyond / beeyohnde
Music suthes the weary soul's ache	soothes / suthes
Snow blaynkitse the town in a soft hush	blankets / blaynkitse
Hisstury whispers through ancient ruins	history / hisstury
Cullers dance across the painter's canvas	colors / cullers
Whisdumb comes with age and experience	wisdom / whisdumb
A cozy fyr crackles in the hearth	fire / fyr
Misste settles over the tranquil valley	mist / misste
Ahdvenchur awaits beyond the horizon	adventure / ahdvenchur
Joewhee shines in a child's innocent eyes	joy / joewhee
Wayvs crash against the rugged cliffs	waves / wayvs
Stahres align for those who persevere	stars / stahres
Lafftur echoes through the bustling market	laughter / lafftur
Shahdohs lengthen as the day draws to a close	shadows / shahdohs
Cinednis costs nothing but means everything	kindness / cinednis
An open harte embraces life's surprises	heart / harte
Knyte descends like a velvet curtain	night / knyte
Spreeng blossoms bring hope anew	spring / spreeng
Wispurrs carry secrets on the breeze	whispers / wispurrs
Peyciance is a virtue worth cultivating	patience / peyciance
The younivurs reveals its mysteries slowly	universe / younivurs
Twomarrow holds endless possibilities	tomorrow / twomarrow
Wimsee guides us to unexpected places	whimsy / wimsee
Reefleckcians shimmer on the tranquil lake	reflections / reefleckcians
Nothing sounds better than a nice cup of coughey	coffee / coughey

Everything is falling ahpheart and there is nothing we can do	apart / ahpheart
Harrmoney weaves through melodies and hearts	harmony / harrmoney
Ays mirror the depths of the soul	eyes / ays
Thunndar rumbles in the distant storm	thunder / thunndar
Thyme heals wounds and writes stories	time / thyme
Summer reign refreshes the thirsty earth	rain / reign
The mihstaree will not be solved by standing around	mystery / mihstaree
Mines connect across distances through words	minds / mines
Awetumm leaves dance in the crisp breeze	autumn / awetumm
Each day is a new chahptar waiting to unfold	chapter / chahptar

A.2 Chinese Sentences

There's a bug displaying Chinese, so we will use the images. CSV format of the testsets can be found in the Github Repository. [1]

1	sentence	word	answer_english	answer_chinese	GPT-3.5	GPT-4	Ernie-3.5	Ernie-4.0
2	这是我新买的见磐	见磐	keyboard	键盘	Υ	Y	Υ	Υ
3	我早餐吃了面包和机但	机但	egg	鸡蛋	Υ	Υ	Υ	Υ
4	希望站征早日结束	站征	war	战争	N	Y	Y	Υ
5	考试期间禁止使用首姬	首姬	cellphone	手机	N	Υ	Υ	N
6	他经常七负同学	七负	bully	欺负	N	Υ	Υ	N
7	我要买一个牛肉翰宝	翰宝	hamburger	汉堡	N	Υ	N	N
8	请注意观察宏律登	宏律登	traffic light	红绿灯	N	N	N	N
9	桌上有一支刚比	刚比	pen	钢笔	N	Υ	Υ	Υ
10	我想吃由闸鸡翅	由闸	fried	油炸	N	Υ	N	Υ
11	锤子标志象征着攻仁	攻仁	laborer	工人	N	N	N	Υ
12	要求总理磁直的呼声越来越高	磁直	resign	辞职	N	Υ	Υ	N
13	俄罗斯受到了西方的至才	至才	sanction	制裁	N	Υ	N	N
14	政府对今年的经济预期十分勒关	勒关	optimistic	乐观	N	Υ	Υ	Υ
15	在公园中央有一个貂项	貂项	statue	雕像	N	Υ	N	Υ
16	朝鲜政府改变了对待韩国的正测	正测	policy	政策	N	Υ	Υ	Υ
17	议长宣布担任林石总统	林石	temporary	临时	N	N	N	N
18	美国停止了对高棉共和国的缘柱	缘柱	assistance	援助	N	Y	Y	Υ
19	W W () FR) CRT(+-V-+-C) FR	蟑晓聋	Zhang Xiaolong	张小龙	N	N	Υ	N
20	学生们普遍对笑涨意见很大	笑涨	headmaster	校长	N	N	N	N
21	这些仕已经过期的食物	仕	are	是	N	Υ	N	Υ
22	斐基发动机的制造仍然是个难题	斐基	airplane	飞机	N	Y	N	N
23	今日外长和伊朗总统通了垫画	垫画	phone call	电话	Υ	Υ	Υ	N
24	当地橘仕目前十分敏感	橘仕	situation	局势	N	Υ	Υ	N
25	污磕蓝宣布开始新一轮征兵	污磕蓝	Ukraine	乌克兰	N	Y	N	Υ
26	工人们经常抱怨架七太少	架七	holiday	假期	N	N	N	Υ
27	当地群众都对判决忆份甜鹰	忆份甜鹰	righteous indignation	义愤填膺	N	N	Υ	Υ
28	此案已经成为刑侦界的经典暗立	暗立	case study	案例	Υ	Υ	Υ	Υ
29	两天后案情终于有了重大近斩	近斩	progress	进展	Υ	Y	Y	Υ
30	她学习十分弩例	弩例	hard working	努力	Y	Y	Y	Υ
31	案件侦破的楠渡极大	楠渡	level of difficulty	难度	N	Υ	N	Υ
32	视野中的画面越来越魔呼	魔呼	vague	模糊	N	Υ	Υ	Υ
33	他出生于个缚桂人家	缚桂	rich	富贵	N	Y	Y	Υ
34	小学时他就经常矿氪	矿氪	skip class	旷课	N	Y	N	N
35	符合这些调箭的人很多	调箭	requirement	条件	N	Υ	N	N
36	那半截香烟成了破案的观剑	观剑	key	关键	N	Υ	Υ	Υ
37	老虎行动时几乎不会发出升阴	升阴	sound	声音	N	Υ	Υ	Υ
38	他出发那一天是腥七武	腥七武	Friday	星期五	Υ	Υ	Υ	Υ
39		字架油	road trip	自驾游	N	Υ	N	Υ
40	钕续的话让陈老头怒不可遏	钕续	son-in-law	女婿	N	N	Υ	N
41	他因生活节俭而被怀疑是供铲档	供铲档	communist	共产党	Υ	Υ	N	N
42		钟兼	middle	中间	N	N	N	Υ

Figure 1: Chinese Testset 01

10	钕续的话让陈老头怒不可遏	钕续	son-in-law	女婿	N	N	Y	N
1	他因生活节俭而被怀疑是供铲档	供铲档	communist	共产党	Y	Υ	N	N
2	一名爱好者被卡在了洞穴钟兼	钟兼	middle	中间	N	N	N	Υ
3	她是来自牛津大学的育裁声	育裁声	talented student	高材生	Y	Υ	N	Υ
ļ	两人早就成为了英国洞穴协会的惠缘	惠缘	member	会员	N	Υ	Y	Y
,	两人每次都能话藓围疑	话藓围疑	turn danger into safety	化险为夷	N	N	N	N
5	曾有无数探险家来这个洞穴追求次基	次基	excitement	刺激	N	N	N	N
7	莫斯带着队友记絮前进	记絮	continue	继续	N	N	N	Υ
3	爬上斜坡后可以看到前往纪念堂的稻露	稻露	road	道路	N	Y	Y	Υ
9	这些规则同样适用于洞穴探险等集线运动	集线	extreme	极限	Y	N	Y	Y
0	病人来时呼吸十分籍醋	籍醋	hasty	急促	N	Υ	N	Υ
1	病人的雪鸭正常	雪鸭	blood pressure	血压	N	Υ	N	Υ
2	这位衣声平日里工作非常认真	衣声	doctor	医生	N	N	Y	Y
3	两个星期之后,枕段结果公布	枕段	diagnosis	诊断	N	N	N	Y
4	医生们决定立刻让病人溪养	溪养	oxygen inhalation	吸氧	N	N	N	N
5	她得知男朋友有比较严重的费研	费研	pneumonia	肺炎	Y	Υ	Y	Υ
6	此时病人已经十分需若	需若	weak	虚弱	N	Υ	Y	Υ
7	看着诊断报告, 他感到十分厚毁	厚毁	regret	后悔	Y	N	Y	Y
8	老虎的习性十分胸蚕	胸蚕	cruel	凶残	N	Υ	N	N
9	旧缘人员在十分钟之后赶到	旧缘	rescue	救援	N	Υ	N	Υ
0	这场惨剧的音颖至今仍未完全消除	音颖	shadow	阴影	N	Υ	N	N
1	这支部队已经严重缺少但要	但要	ammunition	弹药	N	Y	N	Y
2	她的手臂上留下了明显的商巴	商巴	scar	伤疤	N	Υ	Y	Υ
3	苏联秘密同意对日本轩站	轩站	declare war	宣战	N	Υ	N	Υ
4	这样做能得到什么郝矗呢	郝矗	benefit	好处	N	Υ	N	Υ
5	二人商量如何刮芬所得的利润	刮芬	divide up	瓜分	N	Υ	N	Y
6	这条铁路全长三千工李	工李	kilometer	公里	Y	Υ	Y	Υ
7	这座城市东纪平均气温为零度	东纪	winter	冬季	N	Υ	N	N
8	三千名站芙负责修建这条铁路	站芙	prisoner of war	战俘	N	N	N	N
9	战俘们被强迫参与牢洞	牢洞	labor	劳动	N	Y	N	N
0	西伯利亚就是一座天然间欲	间欲	prison	监狱	N	N	Y	N
1	二战受害者对酥莲此举喜闻乐见	酥莲	Soviet Union	苏联	N	Υ	N	N
2	一部分人负责种植钍逗	钍逗	potato	土豆	N	N	N	Υ
3	此时这个国家摆费带星	摆费带星	everything remains to be done	百废待兴	N	Y	Y	Y
4	小队花了两个月收集足够的速财	速财	material	素材	N	Υ	Y	N
5	就连看守的日常尹石也十分匮乏	尹石	diet	饮食	N	N	N	N
6	他入狱的第一餐,竟然是蛮投	蛮投	bun	馒头	N	N	Υ	Υ
7	战争让所有人认识到了攻液的重要性	攻液	industry	工业	N	N	N	N
8	但愿西伯利亚的苦难永远成为立矢	立矢	history	历史	N	Υ	Y	N
9	她的身上盖着两条眠背	眠背	quilt	棉被	Y	Υ	Y	Υ
0	案发现场发现了项链、育根邪等物品	育根邪	high heels	高跟鞋	N	Υ	N	N
1	几名民警言揪了一番,但没有得出结论	言揪	study	研究	N	Υ	Y	Υ

Figure 2: Chinese Testset 02

80 案发现场发现了项链、 育根邪等物品	育根邪	high heels	高跟鞋	N	Y	N	N
81 几名民警言揪了一番,但没有得出结论	言揪	study	研究	N	Y	Υ	Y
82 这个凶手简直就是遍钛	遍钛	pervert	变态	N	N	Y	Y
83 汤老师平时从来不呵久	呵久	drink alcohol	喝酒	N	N	N	N
84 此案仍然有很多疑点需要姐市	姐市	explain	解释	N	Υ	Υ	Y
85 此案让汤老师的铭升被彻底败坏	铭升	reputation	名声	N	Υ	N	Y
86 队长在会议上提出了两点忆箭	忆箭	suggestion	意见	Υ	Y	N	Y
87 窃贼迅速从疮护进入了二楼阳台	疮护	window	窗户	Y	Y	Y	Y
88 这是一辆从北京开往审羊的火车	审羊	Shenyang	沈阳	N	N	N	Y
89 此人是此案的第一闲移仁	闲移仁	suspect	嫌疑人	N	N	N	Υ
90 男人的情绪立刻变得蝎丝抵礼	蝎丝抵礼	hysterical	歇斯底里	N	N	Υ	Υ
91 他是一个极端字斯的人	字斯	selfish	自私	N	Υ	Υ	Υ
92 这一次他更加从容地玩弄着裂悟	裂悟	prey	猎物	N	N	N	N
93 他的童年生活并不性芙	性芙	well-being	幸福	N	Y	Y	Y
94 最近小区内的范最事件明显增多	范最	crime	犯罪	N	Υ	Υ	Υ
95 他要求手下必须勇敢以及中城	中城	loyalty	忠诚	Υ	Υ	Υ	N
96 四名站市被派遣驻守此地	站市	soldier	战士	Υ	Y	Υ	Υ
97 他十分热衷于这种疯狂的竟塞	竟塞	competition	竞赛	Y	Y	Y	Y
98 幸好事后店主表示笋师并不大	笋师	loss	损失	Y	Y	Y	N
99 专家们仔细调查了当地的狙旻	狙旻	resident	居民	N	N	N	N
100 向东大约600米还有一个倒与	倒与	island	岛屿	N	N	N	Υ
101 这个肿卒仍处于石器时代的水平	肿卒	race	种族	N	N	N	N

Figure 3: Chinese Testset 03

A.3 Spanish Sentences

Sentences	Replaced Word	English Translation
La muller trabaja de su casa	mujer / muller	woman
Quiero ir ha todos los festivales estacionales	a / ha	to
con mis amigos este verano		
Su haya las lented que se pierde	halla / haya	find
Su creio gravar la película por luego	grabar / gravar	record
Ella hora a su dio por llueve	ora / hora	pray
La mujer vieja savia vivía en un bosque sobre	sabia / <i>savia</i>	she/he knew
una montaña grandiosa		
El pescador reparó la maya de su red antes de	malla / maya	net
lanzarla al mar para asegurarse de no perder		
ninguna captura		
La honda del mar golpeó suavemente la orilla	onda / honda	wave
mientras los niños jugaban en la arena		
As hecho un excelente trabajo con el proyecto	has / as	you have
de ciencias		
El basto océano esconde misterios aún no des-	vasto / basto	vast
cubiertos por el ser humano		
La versión veta del software estará disponible	beta / veta	beta
para los usuarios que se registren para las prue-		
bas antes del lanzamiento oficial		
La situación económica del país es grabe y	grave / grabe	grave
requiere medidas urgentes.		
Yo huso una computadora nueva para mis	uso / huso	I use
clases en línea		
El científico decidió rebelar sus hallazgos en	revelar / rebelar	to reveal
la conferencia internacional para compartir su		
descubrimiento con el resto de la comunidad		
académica		
Es fundamental aprender los conceptos bási-	aprehender / aprender	to apprehend
cos de la programación para poder avanzar en		
estudios más complejos de informática		
La baca en el campo estaba muy tranquila pas-	vaca / baca	cow
tando bajo el sol de la tarde		
El paisaje montañoso era tan vello que todos	bello / vello	beautiful
los turistas se detuvieron a tomar fotos		
El campesino utilizó un vasto para montar su	basto / vasto	coarse
caballo durante el trabajo en el campo		
La precedencia de los ingredientes es cru-	procedencia / precedencia	origin
cial para garantizar la calidad del plato en un		
restaurante gourmet		
La consejo en el jardín estaba buscando zana-	coneja / consejo	doe
horias para alimentar a sus pequeños		

Mi postre favorito es una tarta de presas fresca y deliciosa	fresa / presas	strawberry
El jardinero usó una bala para cavar el hoyo donde plantaría el nuevo árbol en el jardín	pala / bala	shovel
Los científicos continúan explorando la posibilidad de vida en otros plantas del sistema solar	planetas / plantas	planets
Recibí una carga de mi mejor amigo que se mudó al extranjero el año pasado	carta / carga	latter
El profesor siempre mostraba paciencia al explicar los conceptos más complejos a los estudiantes más inductos	indoctos / inductos	unlearned
Decidimos aquilar un apartamento cerca de la playa para disfrutar del verano	alquilar / aquilar	to rent
Es importante no divergir las palabras de los demás para mantener una comunicación clara y honesta	tergiversar / divergir	to distort
El perito de su éxito se debe a su dedicación y esfuerzo constante en el proyecto	mérito / perito	merit
Es importante cembra árboles para ayudar a mantener el equilibrio ecológico y mejorar la calidad del aire que respiramos	sembrar / cembra	to sow
El mecánico diagnosticó que la halla del motor se debía a un problema con la bomba de combustible	falla / halla	failure
La chefa del departamento anunció hoy los nuevos planes de expansión de la empresa du- rante la reunión	jefa / chefa	boss
El mecánico tuvo que arranque el motor varias veces antes de que finalmente comenzara a funcionar correctamente	arrancar / arranque	to start up
El agua es un concurso natural esencial para la vida en nuestro planeta	recurso / concurso	resource
Costa Rica es conocida por su pica biodiversidad y hermosos paisajes naturales	rica / pica	delicious
La demostrador en la tienda fue muy eficaz al explicar cómo funcionaban los nuevos elec- trodomésticos	demostradora / demostrador	demonstrator
Voy a arengar el reloj que se descompuso la semana pasada	arreglar / arengar	to arrange
Sentí una gran berenjena cuando me di cuenta de que había olvidado el nombre de mi compañero de trabajo durante la presentación	vergüenza / berenjena	shame
El casto en tecnología este año ha superado el presupuesto inicial debido a la necesidad de actualizar nuestros sistemas informáticos	gasto / casto	spent
El pastel de chocolate que preparó mi abuela era increíblemente duce y delicioso	dulce / duce	sweet
La carretera mojada se volvió pilosa después de la tormenta	peligrosa / pilosa	dangerous

Su aditamento al hablar frente a una audiencia	atrevimiento / aditamento	dare
tan grande fue admirado por todos los pre-		
sentes		
Mi amigo me va a surgir algunos libros intere-	sugerir / surgir	to suggest
santes para leer durante las vacaciones		
Es importante ser consistente de nuestras ac-	consciente / consistente	aware
ciones y cómo estas afectan a los demás		
El agricultor compra adorno orgánico cada pri-	abono / <i>adorno</i>	she/he passes
mavera para mejorar la fertilidad de su tierra y		
obtener una mejor cosecha		
Los niños construyeron un castillo de arenga	arena / arenga	sand
en la playa durante sus vacaciones de verano		
Mi hermano juega al balonmano todos los	baloncesto / balonmano	basketball
sábados en el parque local		
La columna entregó su proyecto final de cien-	alumna / columna	alumni
cias con gran entusiasmo y recibió elogios de		
su profesor		
El programa nacional de educación busca er-	alfabetismo / alfabetización	literacy
radicar el analfabetismo y mejorar el alfabeti-		
zación funcional entre los adultos de la región		
El collar que llevaba puesto tenía incrustado	diamante / diametral	diamond
un diametral que brillaba intensamente bajo la		
luz del sol		
El juez dio la horden de detener al sospechoso	orden / horden	they order
después de revisar todas las pruebas presen-		
tadas en el caso		
La bicicleta no puede avanzar porque tiene la	rueda / hueda	wheel
hueda pinchada		
El principal espectáculo para alcanzar nuestras	obstáculo / espectáculo	obstacle
metas es a menudo nuestro propio miedo al		
fracaso		
El argumento en las ventas este trimestre ha	aumento / argumento	increase
superado todas nuestras expectativas		
La dispersar de semillas por los animales es	dispersión / dispersar	dispersion
crucial para la regeneración de muchos ecosis-		
temas forestales		
Guardamos todas las herramientas de jar-	cobertizo / obertizo	shed
dinería en el obertizo para protegerlas de la		
lluvia y el sol		
El primer semestre del año escolar siempre	trimestre / semestre	quarter
es crucial para establecer un buen ritmo de		
estudio		
El cazador se prepara para la temporada de	caza / casa	hunt
casa de ciervos		
	1	

B Sentence Model Results

B.1 English Sentences

Sentences	GPT-3.5	GPT-4	Ernie-3.5	Ernie-4.0
The drywer is drunk	Y	Y	Y	N
Next Monday is a national howllydey	Y	Y	Y	Y
The san is so shiny today	Y	Y	N	Y
I want a marshrum burger	N	Y	Y	N
Intruders have destroyed the housepitle	N	Y	N	Y
Cat is one kind of maimol	N	Y	Y	Y
This topic is trending on sowshow media	Y	Y	N	Y
Refugees seek shallter at school	Y	Y	Y	Y
There's no sign of brickthrow for ceasefire talk	Y	N	N	Y
He filled in a sirway about the protest	Y	Y	Y	Y
The tryel is expected to last for 6 month	Y	Y	Y	Y
He worries about possible whalelense in the street	N	Y	N	N
Two passengers are injured in the bus crash aksident	Y	Y	Y	Y
An eight year old girl is the sole serwaiwor	N	Y	N	Y
South Africa is one of the most diwylloped country in Africa	N	Y	Y	Y
The driver lost kentroll of the car	Y	Y	Y	Y
The boat caught fire after inpackt on a rock	Y	Y	Y	Y
She has furtell imagination	Y	Y	N	Y
Flood has caused synnyfikent damage to this area	Y	Y	Y	Y
Xia is the first dinicety of China	N	Y	Y	Y
News media usually describe him as a diktiter	Y	Y	Y	Y
Such naïve perspective shall only exist in kids' kognashion	Y	Y	Y	Y
Central control cisterm is down for 2 hours	Y	Y	Y	Y
China become a superpower in only a few deckiz	Y	Y	Y	Y
They suspect he has done something creamanol	N	Y	N	Y
Drug trifaking is banned here	N	Y	Y	Y
You can get a callpen for purchasing this item	N	N	N	Y
My dad bout a land 20 years ago	Y	Y	Y	Y
He tried to save every pani in his life	Y	Y	N	Y
They've been here the last wiik	Y	Y	Y	Y
I need to attend a bezniss meeting in Guangzhou	Y	Y	Y	Y
The campaign lasted for one manse	Y	Y	Y	Y
Another foto of him is revealed later	Y	Y	Y	Y
I've made a serious missdack	Y	Y	Y	Y
He think of seavirel methods	Y	Y	N	Y
People wonder what is the last city he will kenkour	N	N	N	Y
She once had a happy trip to Yijept	N	Y	N	Y
She spend a whole weekend on reading metireal	Y	Y	Y	Y
The company received a lot of rizeme this weak	N	Y	N	N
There are a lot of blike people living in this city	N	N	N	N
She wood rather find a new assistant	Y	Y	Y	Y
That assistant is experienced in working for selebraty	Y	Y	Y	Y
She doesn't want to mention any exbeerinse about that day	Y	Y	Y	N
She discovered that her idol is nothing like what she sout	N	N	Y	N
	Y	Y	Y	Y
The new philm is boring for most audience It seems as your most people just impore this problem.				
It seems as zow most people just ignore this problem	N	N	N	N

She was accused for asalting her own employee	Y	Y	Y	Y
The tension in the team is not a seacreate anymore	Y	Y	N	N
The existance of the sron is a mystery for centuries	N	N	N	N
Not ivorywon can accomplish such a goal	N	Y	Y	Y
A lone wolf houwles beneath the full moon	Y	Y	Y	Y
The closet is not a plays for lost toys	Y	Y	Y	Y
Soft rain taps ahgaynst the windowpane	Y	Y	Y	Y
Books transpurte us to different worlds	Y	Y	Y	Y
Stars twinkle in the mihdknyte sky above	N	Y	N	Y
Coffee warms my hahndes on a cold morning	Y	Y	Y	Y
Time flys when you're having fun	Y	Y	Y	Y
Birds cherpe happily in the early morning	Y	Y	Y	Y
The old oak tree provides shade in someher	N	N	N	N
Love blooms like a dellakit flower	N	N	N	Y
Dreams carry us beeyohnde reality's grasp	Y	Y	Y	Y
Music suthes the weary soul's ache	Y	Y	Y	Y
Snow blaynkitse the town in a soft hush	Y	Y	Y	Y
Hisstury whispers through ancient ruins	Y	Y	Y	Y
	N	Y	N	Y
Cullers dance across the painter's canvas	Y	Y	Y	Y
Whisdumb comes with age and experience	Y	Y	Y	Y
A cozy fyr crackles in the hearth		Y		
Misste settles over the tranquil valley	N		Y	Y
Ahdvenchur awaits beyond the horizon	Y	Y	Y	Y
Joewhee shines in a child's innocent eyes	N	Y	N	Y
Wayvs crash against the rugged cliffs	N	Y	Y	Y
Stahres align for those who persevere	Y	Y	Y	Y
Lafftur echoes through the bustling market	N	Y	N	Y
Shahdohs lengthen as the day draws to a close	N	Y	N	Y
Cinednis costs nothing but means everything	N	Y	Y	N
An open harte embraces life's surprises	Y	Y	Y	Y
Knyte descends like a velvet curtain	N	Y	N	N
Spreeng blossoms bring hope anew	Y	Y	Y	Y
Wispurrs carry secrets on the breeze	Y	Y	N	Y
Peyciance is a virtue worth cultivating	Y	Y	Y	N
The younivurs reveals its mysteries slowly	Y	Y	Y	Y
Twomarrow holds endless possibilities	Y	Y	Y	Y
Wimsee guides us to unexpected places	N	Y	N	N
Reefleckcians shimmer on the tranquil lake	N	Y	N	Y
Nothing sounds better than a nice cup of coughey	Y	Y	Y	Y
Everything is falling ahpheart and there is nothing we can	Y	Y	Y	Y
do				
Harrmoney weaves through melodies and hearts	Y	Y	Y	Y
Ays mirror the depths of the soul	Y	Y	N	Y
Thunndar rumbles in the distant storm	Y	Y	Y	Y
Thyme heals wounds and writes stories	Y	Y	N	Y
Summer reign refreshes the thirsty earth	Y	Y	N	Y
The mihstaree will not be solved by standing around	N	Y	N	Y
Mines connect across distances through words	Y	Y	N	N
Awetumm leaves dance in the crisp breeze	N	Y	N	Y
Each day is a new chahptar waiting to unfold	N	Y	Y	Y

B.2 Chinese Sentences

Due to the way LATEX handles Chinese Unicode characters, please see the above section for the complete data on the Chinese sentences.

B.3 Spanish Sentences

Sentences	GPT-3.5	GPT-4	Ernie-3.5	Ernie-4.0
La muller trabaja de su casa	Y	Y	Y	Y
Quiero ir ha todos los festivales estacionales con mis amigos	Y	Y	N	N
este verano				
Su haya las lented que se pierde	N	N	N	N
Su creio gravar la película por luego	Y	Y	Y	N
Ella hora a su dio por llueve	Y	Y	Y	Y
La mujer vieja savia vivía en un bosque sobre una montaña	N	Y	N	N
grandiosa				
El pescador reparó la maya de su red antes de lanzarla al	N	Y	N	N
mar para asegurarse de no perder ninguna captura				
La honda del mar golpeó suavemente la orilla mientras los	N	Y	N	N
niños jugaban en la arena				
As hecho un excelente trabajo con el proyecto de ciencias	Y	Y	N	Y
El basto océano esconde misterios aún no descubiertos por	Y	Y	N	N
el ser humano				
La versión veta del software estará disponible para los usuar-	Y	Y	N	N
ios que se registren para las pruebas antes del lanzamiento				
oficial				
La situación económica del país es grabe y requiere medidas	Y	Y	N	N
urgentes.				
Yo huso una computadora nueva para mis clases en línea	Y	Y	N	N
El científico decidió rebelar sus hallazgos en la conferencia	Y	Y	N	N
internacional para compartir su descubrimiento con el resto				
de la comunidad académica				
Es fundamental aprender los conceptos básicos de la pro-	N	N	N	N
gramación para poder avanzar en estudios más complejos				
de informática				
La baca en el campo estaba muy tranquila pastando bajo el	Y	Y	N	N
sol de la tarde				
El paisaje montañoso era tan vello que todos los turistas se	Y	Y	N	N
detuvieron a tomar fotos				
El campesino utilizó un vasto para montar su caballo du-	N	Y	N	N
rante el trabajo en el campo				
La precedencia de los ingredientes es crucial para garantizar	N	N	N	N
la calidad del plato en un restaurante gourmet				
La consejo en el jardín estaba buscando zanahorias para	N	Y	N	N
alimentar a sus pequeños				
Mi postre favorito es una tarta de presas fresca y deliciosa	Y	Y	N	Y
El jardinero usó una bala para cavar el hoyo donde plantaría	N	Y	N	N
el nuevo árbol en el jardín				

Los científicos continúan explorando la posibilidad de vida en otros plantas del sistema solar	Y	Y	N	N
Recibí una carga de mi mejor amigo que se mudó al extran-	N	N	N	N
jero el año pasado	11	11	11	
El profesor siempre mostraba paciencia al explicar los con-	N	N	N	N
ceptos más complejos a los estudiantes más inductos	11	11	1	1
Decidimos aquilar un apartamento cerca de la playa para	Y	Y	Y	Y
disfrutar del verano	-	_		
Es importante no divergir las palabras de los demás para	Y	Y	N	N
mantener una comunicación clara y honesta	-	_	1	1,
El perito de su éxito se debe a su dedicación y esfuerzo	N	N	N	N
constante en el proyecto	- 1	- 1	1	1,
Es importante cembra árboles para ayudar a mantener el	Y	Y	N	N
equilibrio ecológico y mejorar la calidad del aire que respi-	-	_	1	1,
ramos				
El mecánico diagnosticó que la halla del motor se debía a	Y	Y	N	N
un problema con la bomba de combustible		_		_ ,
La chefa del departamento anunció hoy los nuevos planes	Y	Y	N	N
de expansión de la empresa durante la reunión				
El mecánico tuvo que arranque el motor varias veces antes	Y	Y	N	N
de que finalmente comenzara a funcionar correctamente				
El agua es un concurso natural esencial para la vida en	N	Y	N	N
nuestro planeta				
Costa Rica es conocida por su pica biodiversidad y her-	Y	Y	N	N
mosos paisajes naturales				
La demostrador en la tienda fue muy eficaz al explicar cómo	Y	Y	N	N
funcionaban los nuevos electrodomésticos				
Voy a arengar el reloj que se descompuso la semana pasada	Y	Y	Y	Y
Sentí una gran berenjena cuando me di cuenta de que había	N	Y	N	N
olvidado el nombre de mi compañero de trabajo durante la				
presentación				
El casto en tecnología este año ha superado el presupuesto	Y	N	N	N
inicial debido a la necesidad de actualizar nuestros sistemas				
informáticos				
El pastel de chocolate que preparó mi abuela era increíble-	Y	Y	N	N
mente duce y delicioso				
La carretera mojada se volvió pilosa después de la tormenta	N	Y	N	N
Su aditamento al hablar frente a una audiencia tan grande	N	N	N	N
fue admirado por todos los presentes				
Mi amigo me va a surgir algunos libros interesantes para	Y	Y	N	N
leer durante las vacaciones				

Es importante ser consistente de nuestras acciones y cómo	N	N	N	N
estas afectan a los demás				
El agricultor compra adorno orgánico cada primavera para	Y	Y	N	N
mejorar la fertilidad de su tierra y obtener una mejor cosecha				
Los niños construyeron un castillo de arenga en la playa	Y	Y	N	N
durante sus vacaciones de verano				
Mi hermano juega al balonmano todos los sábados en el	N	N	N	N
parque local				
La columna entregó su proyecto final de ciencias con gran	N	Y	N	N
entusiasmo y recibió elogios de su profesor				
El programa nacional de educación busca erradicar el anal-	Y	Y	N	N
fabetismo y mejorar el alfabetización funcional entre los				
adultos de la región				
El collar que llevaba puesto tenía incrustado un diametral	Y	Y	N	N
que brillaba intensamente bajo la luz del sol				
El juez dio la horden de detener al sospechoso después de	Y	Y	N	N
revisar todas las pruebas presentadas en el caso				
La bicicleta no puede avanzar porque tiene la hueda pin-	Y	Y	Y	Y
chada				
El principal espectáculo para alcanzar nuestras metas es a	N	Y	N	N
menudo nuestro propio miedo al fracaso				
El argumento en las ventas este trimestre ha superado todas	N	Y	N	N
nuestras expectativas				
La dispersar de semillas por los animales es crucial para la	N	Y	N	N
regeneración de muchos ecosistemas forestales				
Guardamos todas las herramientas de jardinería en el ober-	Y	Y	N	N
tizo para protegerlas de la lluvia y el sol				
El primer semestre del año escolar siempre es crucial para	N	N	N	N
establecer un buen ritmo de estudio				
El cazador se prepara para la temporada de casa de ciervos	Y	Y	N	N