

Supplement Material

Supplementary Method

The overall research scheme is demonstrated in Supplementary Figure 1.

Preprocessing

We replaced “weibo_content” of all Weibo posts labelled as “retweets” or “fast retweets” with their corresponding “r_weibo_content” (the original content that was retweeted). We then removed hyperlinks, emoji expressions, spaces and special symbols. We extracted the geolocation of the posts from the field “ip”. We note that most of the geolocation information is missing before May 19, 2022.

Posts Classifications

We build our content classification model based on BERT model and fine-tuning technique^{1,2}.

The pre-trained model we leveraged is bert-base-chinese from Huggingface³. The hyperparameters we used are as following:

- batch_size: 64;
- learning rate (Adam): 10⁻⁵;
- number of epochs: 10, 12.

We assessed our model by receiver operating characteristics curve (ROC curve) and the area under the curve (AUC). ROC curve is plotted as the true positive rate (TPR) against the false positive rate (FPR) at various threshold settings. The AUC is the area under the ROC curve, which depicts the trade-off between TPR and FPR. AUC is typically range from 0.5 to 1, with 1 as the perfect learning model while 0.5 represents a random guess. Higher AUC indicates a better model in terms of learning and prediction.

We randomly chose 2000 Weibo posts and labeled them into “PD-related” and “PD-unrelated” groups manually. The dataset was then divided into training, validation and test sets in an 8:1:1 ratio. We then chose another 1000 posts randomly for evaluation. The model achieves AUC=0.98, an accuracy of 0.9225 and F1 score of 0.9238 (see in Supplementary Figure 2a), which demonstrates that it can accurately discriminate whether Weibo posts are related to Parkinson’s disease.

To classify Weibo posts into 6 topics: seeking advice, sharing knowledge, seeking social support, providing social support, emotional expression, and others, we trained another fine-tuned BERT model. We randomly selected 3232 posts from “PD-related” group and manually labeled them for training. The overall AUC value for the multi-class model is 0.9201 (see in Supplementary Figure 2b). The AUC values of the trained model for each category are as following:

- seeking advice: 0.9230;
- sharing knowledge: 0.9215
- seeking social support: 0.9096
- providing social support: 0.9555
- expressing emotion: 0.8962.

The collective assessment of these metrics indicates a good classification performance of the model.

AIC value and backward stepwise selection

AIC is a model selection criterion used to balance the fit and complexity of statistical models.

The best fit model according to AIC criterion (which has smallest AIC value) is the one that

explains the greatest amount of variation using the fewest possible independent variables. AIC value is calculated as:

$$AIC = -2\ln(L) + 2K$$

where $\ln(L)$ is the log- maximum likelihood estimate of the model, K is the number of parameters of the model.

Based on the AIC, backward feature selection is a method of feature selection that utilizes the AIC criterion as an evaluation metric to select the optimal subset of features. This method starts with a complete model containing all features and gradually removes features until the optimal subset of features is found. The steps for backward feature selection based on the AIC are as follows:

1. Initialization: Consider all features as the candidate subset of features. Let the subset of features be denoted as S , initially including all features.
2. Fit a model on the feature subset S and calculate the AIC value for the model.
3. For each feature $i \in S$, perform the following steps:
 - a. Remove feature i from the feature subset S to obtain a new feature subset S' .
 - b. Fit a new model on the feature subset S' and calculate the AIC value for the model.
4. Based on the calculated AIC values from Step 3, select the feature i that minimizes the AIC value and remove it from the feature subset S , resulting in an updated feature subset S' .
5. Repeat Steps 2 and 3 until no more features can be removed, i.e., the difference between the current best AIC value and the previous best AIC value is below a given threshold or remains unchanged.
6. Return the final selected feature subset S' .

SHAP value

SHAP value is calculated as following⁴

$$\phi_i(v) = \frac{1}{N!} \sum_R [v(P_i^R \cup \{i\}) - v(P_i^R)]$$

where N is the number of features, P_i^R is a set of features with order, $v(P_i^R)$ is the contribution of P_i^R , and $v(P_i^R \cup \{i\})$ is the contribution of P_i^R and i . The absolute SHAP value demonstrates how much a single feature affected the prediction.

Fixed effect Model

We constructed panel data from May to December 2022, which included posting volume and COVID-19 data from 23 provinces or regions.

Fixed effect models are used to estimate the causal effects of variables that vary over time⁵. Fixed effect model removes the effect of those time-invariant factors and we can assess the net effect of the COVID-19 related variables that vary over time. We assume that the demographic, social, and economical factors of each province are time-invariant. Fixed effects model essentially estimates individual intercepts for each province while assuming the slopes are fixed across all provinces. Let N be the individuals (provinces or cities) observed over T time periods. The variable Y represents the post volume, while the variable X represents the COVID-19 data (Monthly Confirmed Cases and Cured Cases). The fixed effect model can be expressed as:

$$Y_{it} = \alpha_i + \beta X_{it} + \varepsilon_{it}$$

where Y_{it} is the response variable, which refers to the post volume of individual i during period t . α_i is the fixed effect of individual i , representing the specific and time-invariant influence of individual i . This effect is assumed to be a constant that varies across individuals. β represents the coefficient of X on Y , X_{it} stands for the COVID-19 data of individual i during time period t , and ε_{it} represents the error term, accounting for the impact of unobserved factors on Y_{it} .

ACF value

Global and Local Network Efficiency

Global efficiency is defined as the average inverse shortest path length between all node pairs in the network⁶. A higher global efficiency indicates better overall connectivity, with shorter paths between nodes. Global efficiency measures how efficiently information can be exchanged over the network, assuming parallel routes between node pairs exist. It captures how easily information can be propagated over the whole network. Definition is as following:

$$E_{glob} = \frac{1}{N(N-1)} \sum_{i,j \in V, i \neq j} \frac{1}{l_{ij}}$$

where l_{ij} represents the shortest path length between nodes j and k .

Local efficiency is the global efficiency computed on the neighborhood of each node, then averaged⁶. A higher local efficiency means the network is more fault-tolerant. Local efficiency can be calculated as

$$E(i) = \frac{1}{N_{G_i}(N_{G_i} - 1)} \sum_{j \neq k \in G_i} \frac{1}{l_{j,k}}$$
$$E_{loc} = \langle E(i) \rangle = \frac{1}{N} \sum_{i \in V} E(i)$$

Clustering Coefficient

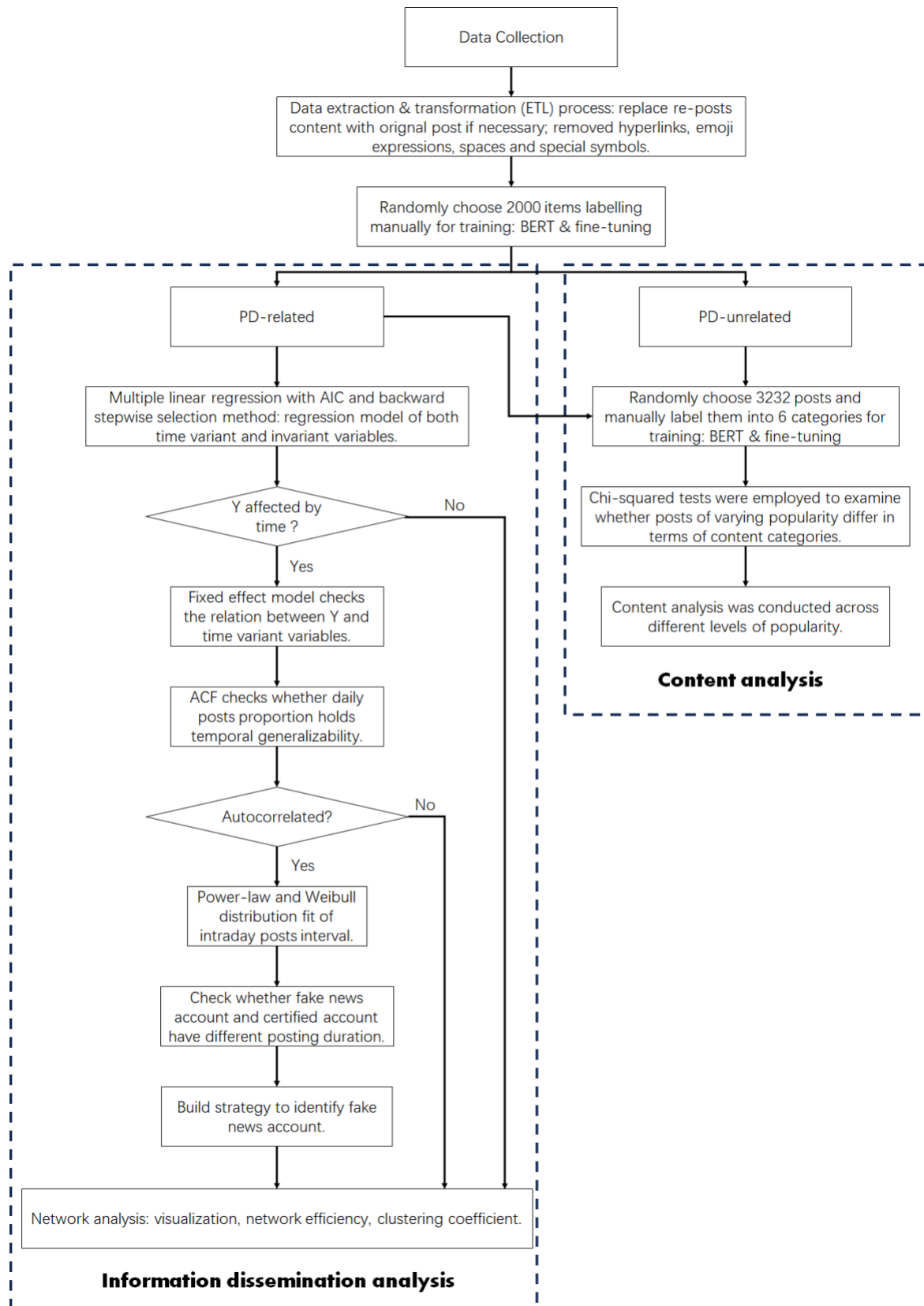
The clustering coefficient is a measure of the degree to which nodes in a graph tend to cluster together⁷. In a social network, it measures how likely it is that two friends of a node are also friends of each other. The clustering coefficient C ranges from 0 to 1. A high clustering coefficient indicates the presence of tightly knit groups in the graph. A low clustering coefficient indicates poor connectivity amongst the neighbors of a node.

$$C_i = \frac{2e_i}{k_i(k_i - 1)} = \frac{\sum_{j,m} a_{ij} a_{im} a_{mj}}{k_i(k_i - 1)}$$

where e_i represents the number of edges that are connected between the neighbors of this node, $k_i(k_i - 1)$ represents the maximum possible number of connected edges, $a_{ij} = 1$ if i, j is connected.

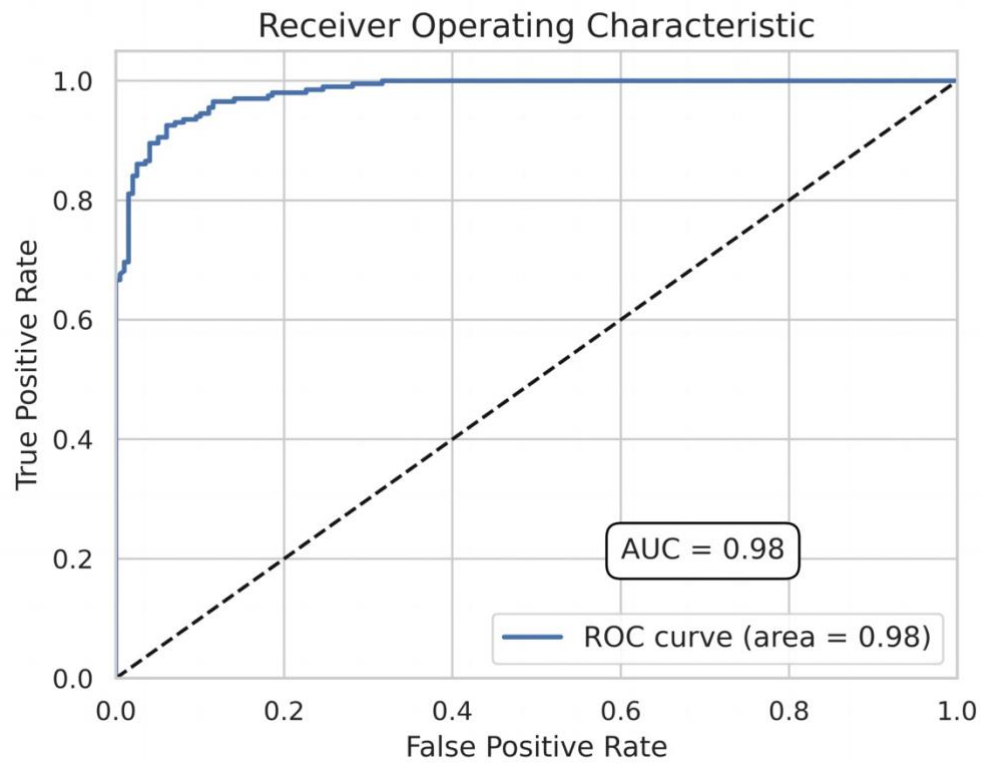
Supplementary References

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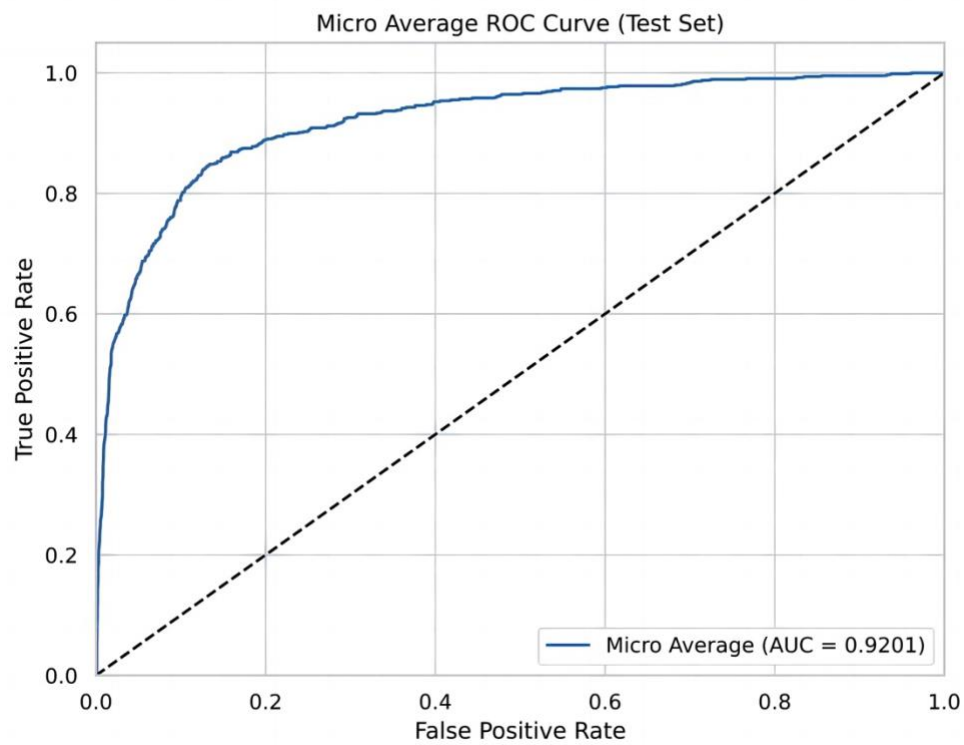


Suppliemntary Figure 1 The research scheme of this study

(a)



(b)



Supplementary Figure 2 (a) AUC curve of model for PD-related and PD-unrelated classification model; (b) AUC curve of model for classification of PD-related posts into 6 categories.

Supplementary Table 1. Proportion of Posts in each category.

Group	Popularity	Representative Posts	Translation	Notes
TCM Post	Low	帕金森吃了四个月中药治愈了 帕金森综合症可以治愈吗 帕金森综合征 龙元熄颤汤	Parkinson ate Chinese medicine for four months to cure Parkinson's syndrome can be cured Parkinson's syndrome Longyuan Xidian soup	
	Low	帕金森综合症患者有哪些症状表现 治疗帕金森最好的药 帕金森怎么治疗最有效 中医治疗帕金森龙元熄颤汤中医治疗帕金森效果怎么样	Parkinson's syndrome patients have what symptoms to treat Parkinson's disease the best medicine how to treat Parkinson's disease the most effective Chinese medicine treatment of Parkinson's disease Longyuan Xidao decoction How is the effect of traditional Chinese medicine treatment of Parkinson's disease	
	Low	帕金森一周见效根治 帕金森能治好吗 龙元熄颤汤 帕金森病能治好吗 帕金森综合征的临床表现 帕金森可以治好 得了帕金森能治好吗 帕金森综合症早期症状	Parkinson's one week curative curative Parkinson's disease can be cured can Longyuan Dixie decoction Parkinson's disease can be cured clinical manifestations Parkinson's disease can be cured Parkinson's disease can be cured early symptoms of Parkinson's syndrome	
	Low	对于后期的帕金森氏病患者尤其是已使用较多抗帕金森氏病西药的基础上可产生类似于便秘食欲减退等相关副作用	For late Parkinson's disease patients, especially on the basis of the use of more western drugs against Parkinson's disease, it can produce related side	

			effects similar to constipation and appetite loss	
	Low	发布了头条文章 2022 有望根治帕金森	Published the leading article 2022 promises to cure Parkinson's disease	
	Low	帕金森综合症早期症状 手抖是什么原因引起的 龙元熄颤汤 手抖是什么原因引起的	What is the cause of the early symptoms of Parkinson's syndrome hand tremor? What is the cause of the hand tremor	
	Low	卢顺义帕金森中医怎么治疗最有效卢顺义帕金森中医怎么治疗最有效	How does Lu Shunyi Parkinson's Chinese Medicine treat the most effective How does Lu Shunyi Parkinson's Chinese Medicine treat the most effective	
	Low	发布了文章 治疗帕金森的最佳药是什么	Published article What is the best drug for Parkinson's Disease	
	Low	发布了头条文章帕金森自愈的最佳方法	Published the headline article Parkinson's Best ways to heal itself	
	Low	对于后期的帕金森氏病患者尤其是已使用较多抗帕金森氏病西药的基础上可产生类似于便秘食欲减退等相关副作用此时采用中药治疗可有效缓解西药对患者产生的毒副作用尤其是对于患者便秘食欲减	For patients with late-stage Parkinson's disease, especially on the basis of the use of more western drugs against Parkinson's disease, related side effects similar to constipation appetite loss may occur. At this time, the use of Chinese medicine can effectively alleviate the toxic side effects of Western drugs on patients, especially constipation appetite loss	
Certified Doctor	Low	电子药脑深部电极植入术在帕金森病治疗中的应用左旋	Application of electronic medicine deep brain electrode implantation in the	Videos + caption, text is just simple

		多巴帮助人类治疗帕金森病已经超过50年其疗效是非常明确的但局限性和长期不良反应带来的问题也不容忽视	treatment of Parkinson's disease Levodopa has helped humans treat Parkinson's disease for more than 50 years, and its efficacy is very clear, but the limitations and long-term adverse reactions can not be ignored	introduction to the video content
	Low	僵直型帕金森病对患者的危害及治疗预后 当帕金森病患者出现腰背部疼痛的患者常伴有屈背样站立姿势站直或躺下后疼痛可以迅速缓解坐位背部前倾常更加明显伴有疼痛加剧	The harm and treatment prognosis of patients with rigid Parkinson's disease when patients with Parkinson's disease have low back pain, the pain can be quickly relieved after standing up straight or lying down. The seated back tilt is often more obvious and accompanied by increased pain	
	Low	帕金森病患者失眠如何调整 帕金森病患者晚上入睡困难频繁惊醒白天精神萎靡嗜睡是普遍的现象其发生的原因一部分是与中枢神经系统神经元退行性病变有关	How to adjust insomnia in patients with Parkinson's disease sleep difficulty at night, frequent wake up during the day, lethargy is a common phenomenon, and part of the reason for its occurrence is related to neuronal degeneration of the central nervous system	
	Low	帕金森病会引起关节疾病吗?	Does Parkinson's disease cause joint disease?	Videos + caption, text is just simple introduction to the video content
	Low	帕金森病人到院评估注意事项	Precautions for patients with Parkinson's disease to hospital assessment	Videos + caption, text is just simple introduction to the video content

	Low	帕金森病中晚期药效下降如何提高生活质量	How does drug efficacy decline in late-stage Parkinson's disease improve quality of life	Videos + caption, text is just simple introduction to the video content
	Low	帕金森病常见病因有哪些是否能预防呢帕金森病常见病因有哪些呢是否可以预防呢微博健康公开课	What are the common causes of Parkinson's disease? Can it be prevented? What are the common causes of Parkinson's disease? Can it be prevented	Videos + caption, text is just simple introduction to the video content
	Low	帕金森病与特发性震颤有什么区别特发性震颤和帕金森病是两个完全不同的疾病其区别在于1 发病机制特发性震颤的发病机制目前尚不清楚帕金森病的发病机制与中脑黑质多	What is the difference between Parkinson's disease and essential tremor? Essential tremor and Parkinson's disease are two completely different diseases. The difference is as follows: 1 Pathogenesis Pathogenesis of essential tremor is still unclear	
	Low	帕金森病手术治疗如何选择最佳时间	How to choose the best time for Parkinson's disease surgery	Videos + caption, text is just simple introduction to the video content
	Low	帕金森病抖僵慢等症有哪些表现如何应对	What are the symptoms of Parkinson's disease, such as shaking stiffness and slow	Videos + caption, text is just simple introduction to the video content
Like >1000	High	87 岁奶奶患帕金森每天坚持数小米河南浚池 87 岁的张素琴老人 2014 年患上帕金森病出现手抖行动迟缓等症状一次偶然老人捡完十斤小米后发现手不那么抖了为防止病情发展老人坚持 4 年每天数小米 1 小时老人说要活过佘太君	An 87-year-old grandmother suffers from Parkinson's disease and insists on counting millets every day. Zhang Suqin, an 87-year-old woman from Mianchi, Henan, was diagnosed with Parkinson's disease in 2014, experiencing symptoms such as hand tremors and slow movements. By chance, after picking	

			up ten kilograms of millets, she noticed that her hands were not shaking as much. To prevent the progression of the disease, she has been counting millets for one hour every day for the past four years. The elderly woman said she wants to live longer than Lady She.	
	High	睡觉经常拳打脚踢可能是病睡觉不老实可能是身体发出报警 转发提醒一位患者睡觉时突然大声嚎叫拳打脚踢醒后说他当时正在做梦梦见一只狗在攻击他医生介绍这是明显的快速眼动睡眠行为障碍倘若症状长时间无法缓解后期可能会逐渐发展成帕金森等神经系统疾病	Frequent punching and kicking during sleep may be a sign of a medical condition. Restless sleep may indicate a warning from the body. Please forward this reminder to a patient who suddenly screams loudly and kicks while sleeping but wakes up claiming to have been dreaming of a dog attacking him. The doctor explains that this is a clear case of rapid eye movement sleep behavior disorder. If the symptoms persist for a long time without relief, it could potentially develop into neurological disorders such as Parkinson's disease in the later stages.	
	High	上海 21 日新增本土死亡 11 例 2022 年 4 月 21 日 024 时上海新增本土死亡 11 例平均年龄 84.2 岁最大年龄 94 岁 2 例 11 位患者均合并有严重的多脏器基础疾	On April 21, 2022, Shanghai reported 11 new local deaths. The average age of the deceased was 84.2 years, with the oldest being 94 years old. Among the 11 patients, all had	

		病且病情危重包括冠心病心功能不全肝硬化终末期脑梗帕金森病阿尔兹海默症尿毒症等患者入院后病情进展迅速经抢救无效死亡	severe underlying diseases involving multiple organs, and their conditions were critical. These included coronary heart disease, congestive heart failure, liver cirrhosis, end-stage brain infarction, Parkinson's disease, Alzheimer's disease, and uremia. After admission, the patients' conditions deteriorated rapidly, and despite rescue efforts, they unfortunately passed away.	
	High	帕金森手术有效率 达到 97 以上我国科学家突破百年技术瓶颈精准植入治疗今年 69 岁的张阿姨患有帕金森综合症已经 8 年了此前她一直靠药物控制但治疗效果并不理想中国人民解放军总医院神经外科医学部主任医师毛之奇决定采用国际上正在探索的脑起搏器治疗国际上简称 DBS 疗法	Parkinson's surgery has achieved an effectiveness rate of over 97%. Chinese scientists have made a breakthrough in a century-old technological bottleneck with precise implantation treatment. Zhang Auntie, who is 69 years old this year, has been suffering from Parkinson's syndrome for 8 years. Previously, she relied on medication for control, but the treatment results were not ideal. Dr. Mao Zhiqi, Chief Physician of the Department of Neurosurgery at the Chinese People's Liberation Army General Hospital, decided to adopt deep brain stimulation (DBS) therapy, which is currently	

			being explored internationally.	
	High	小罗伯特唐尼的父亲罗伯特唐尼于周三在睡梦中去世享年八十五岁， 罗伯特唐尼的妻子告诉 Daily News 周三早晨罗伯特在纽约的家中睡梦中去世他上个月满八十五岁一直在和帕金森氏症作斗争	Robert Downey Jr.'s father, Robert Downey Sr., passed away in his sleep on Wednesday at the age of 85. Robert Downey Jr.'s wife informed the Daily News that Robert Sr. passed away in his home in New York City on Wednesday morning. He turned 85 years old last month and had been battling Parkinson's disease.	
Like >100	High	家父老年痴呆我特别痛苦他不认识我 我会不会也老年痴呆， 答 pm25 降到 0 风险可控如果 pm03 也趋于 0 那就是低风险亚美利加把 12 以下定为优秀是作为世界警察很难放弃重工业自废武功 修订标准时各方力量游说放水之下顶的很宽松实际上超过 3 就已经开始增加死亡风险了帕金森阿尔茨海默高血压糖尿	I am particularly distressed by my father's senile dementia. He doesn't recognize me. Will I also develop senile dementia? Answer: If PM2.5 levels decrease to 0, the risk can be controlled. If PM0.3 also tends towards 0, then it is considered low risk. America, as the world's police, finds it difficult to give up heavy industry. It is self-defeating to revise the standards with various lobbying forces. In reality, once it exceeds 3, the risk of mortality begins to increase, including for Parkinson's, Alzheimer's, hypertension, and diabetes.	
	Median	新冠后遗症对健康的影响可能持续数十年， 新冠病毒会进入人的大脑每一	The long-term effects of post-COVID sequelae on health can last for decades. The COVID-19 virus	

		种病毒都能进入大脑在某些情况下会破坏控制运动协调性的脆弱结构也就是所谓的基底神经节引发一种退化过程从而导致帕金森症，伦敦医生弗朗西斯科鲁比诺也见到越来越多的报告称新冠患者入院时血糖水平异常高尽管他们此	can enter the human brain, as any virus can. In certain cases, it can damage the fragile structures that control motor coordination, known as the basal ganglia, triggering a degenerative process that can lead to Parkinson's disease. Dr. Francesco Rubino, a doctor in London, has also observed an increasing number of reports indicating abnormally high blood glucose levels in COVID-19 patients upon admission, despite their prior healthy state.	
	High	日本综艺天王患帕金森症站着不动都困难曾因揩油女主播惹争议	The Japanese variety show king is suffering from Parkinson's disease, making it difficult for him to remain still while standing. He has previously faced controversy due to his involvement in a scandal related to an inappropriate incident with a female news anchor.	
	High	50 岁儿子背帕金森症母亲卖烧饼我在哪里我妈就在哪里近日浙江德清 50 岁的曹加齐带着帕金森症母亲在街头卖烧饼曹加齐在烧饼摊忙活母亲就坐在副驾驶看着他在曹加齐 22 岁时母亲就确诊了帕金森症从此曹加齐去哪儿都	Recently, in Deqing, Zhejiang, a 50-year-old man named Cao Jiaqi, who has a mother with Parkinson's disease, sells pancakes on the street. Cao Jiaqi is busy at the pancake stall while his mother sits in the passenger seat, watching him. Cao Jiaqi's mother was diagnosed with	

		会带着母亲他说百善孝为先母亲还有一天他就要多照顾一天	Parkinson's disease when he was 22 years old, and since then, he has always taken her with him wherever he goes. He believes that filial piety is the greatest virtue, and he wants to take care of his mother for as long as possible, dedicating each day to her.	
	Median	周日愉快世界帕金森病日 家人们早点休息明天又是美好的一天晚安啦奋斗的青春最美丽	Wishing you a happy Sunday, as it is World Parkinson's Disease Day. It's time for your family to rest early, as tomorrow will bring another wonderful day. Goodnight! The beauty of youthful struggle is the most magnificent.	
like > 1000 and comment > 100 and re-post > 100	High	63 岁丈夫背瘫痪妻子外出工作 21 年只要自己还能走就对妻子不离不弃据中新视频 消息浙江丽水 63 岁的钟土荣和妻子夏唐奶结婚至今已有 37 年了婚后两人过着简单幸福的日子 在 2000 年的时候妻子检查出得了帕金森综合症不能正常行走生活也不能自理随着病情的加重精神方面也出现了问题	According to a video report by China News Service, 63-year-old Zhong Turong from Lishui, Zhejiang, has been carrying his paralyzed wife, Xia Tangnai, for 21 years while going out to work. The couple has been married for 37 years and has led a simple and happy life together. In the year 2000, Xia Tangnai was diagnosed with Parkinson's syndrome, which has impaired her ability to walk and perform daily activities independently. As her condition worsened, she also began experiencing mental health issues. However, Zhong	

			Turong has remained devoted to his wife, never leaving her side, as long as he is still able to walk.	
	High	因为一个帕金森大叔手抖拿不出小药丸的吐槽陌生网友们联合在一起进行了一场默契的药瓶打造接力	Due to the comical situation of an elderly man with Parkinson's disease being unable to take out a small pill due to hand tremors, a group of anonymous internet users came together in a synchronized effort to create a relay of custom-made medicine bottles, as a humorous response to the situation.	
	High	你曾被哪个瞬间治愈时光如梭转眼间 2020 就过去了 2021 春节降至对新的一年我们都满怀期待，最近看到一位华裔运动员 jimmy choi 的故事因为他的一条吐槽收到无数陌生网友的脸和帮助只为帮他做出一个小药瓶，Jimmy Choi 今年已经 46 岁了他在 19 年前确诊患上了帕金森因为运动是已知的可以延缓	What moment has ever healed you? Time flies, and in the blink of an eye, 2020 has passed, and we eagerly look forward to the Chinese New Year in 2021, embracing the anticipation for the new year. Recently, I came across the story of Jimmy Choi, a Chinese-American athlete. His humorous remark received countless support and assistance from anonymous internet users, all coming together to create a small medication bottle just for him. Jimmy Choi, now 46 years old, was diagnosed with Parkinson's disease 19 years ago. He understands that exercise is known to slow down the	

			progression of the disease.	
	High	手抖就是帕金森病吗关注帕金森病这些信号要警惕帕金森病威胁老年人健康的沉默杀手近年来还逐渐有年轻化趋势今天是世界帕金森病日了解这些知识点早预防早发现 4 个方法自测是否患帕金森病为自己和长辈的健康收藏世界帕金森病日	Does hand tremor always indicate Parkinson's disease? Pay attention to these signals related to Parkinson's disease. Beware of this silent killer that threatens the health of older adults, which has also shown a trend of affecting younger individuals in recent years. Today is World Parkinson's Disease Day, so it's important to gain knowledge about this condition for early prevention and detection. Here are four methods to self-assess whether you or your elderly family members might have Parkinson's disease. Take steps to safeguard your health and the well-being of your loved ones.	Post by State media which has a large number of followers
	High	4 个方法自测是否患帕金森病	Four Methods for Self-testing Parkinson's Disease:	Post by State media which has a large number of followers
	Median	87 岁奶奶患帕金森每天坚持数小米得了帕金森会流口水手不停地颤抖腿脚不灵活帕金森患者的大脑肌肉发生了什么变化	Grandma, who is 87 years old, suffers from Parkinson's disease. She counts rice grains every day. Due to Parkinson's, she experiences drooling, constant hand tremors, and lack of mobility in her legs. What changes occur in the brain and muscles of Parkinson's patients?	
like > 100 and comment > 10 and re-post > 10	Median	今天例行抗原有一位邻居抗原异常该	Today during routine antigen testing, one	

		邻居是位帕金森老年病患行动不便封控后从未出门也未参加团购无任何症状同居先生抗原正常中午我接到居委的通知说我们层是密接需要转到酒店隔离晚上发展到我们整栋楼的人被居委派出所告知要转运酒店隔离但一整天了抗原异常的邻居的至今核酸仍未安	of our neighbors showed an abnormal antigen result. This neighbor is an elderly person with Parkinson's disease and has limited mobility. Since the lockdown measures were implemented, they haven't left their home or participated in any group activities, and they haven't shown any symptoms. However, at noon, I received a notification from the neighborhood committee stating that our floor is considered close contacts and needs to be transferred to a hotel for isolation. In the evening, the situation escalated, and the entire building was informed by the neighborhood committee and local police station that we would be transported to a hotel for quarantine. However, even after a whole day, the neighbor with the abnormal antigen result has not yet undergone a nucleic acid test.	
	Median	海洋污染情况远比我们想象得严重海洋中的金属污染比如汞随着海鲜进入我们的饭桌后果可能会导致阿尔兹海默症和帕金森等疾	The situation of ocean pollution is far more severe than we imagine. Metal pollution, such as mercury, in the ocean can enter our food chain through seafood	

		病对于海洋的保护刻不容缓	consumption. The consequences can lead to diseases like Alzheimer's and Parkinson's. It is imperative to prioritize the protection of the oceans.	
	Median	上海阴性被强制隔离上海疫情 徐汇区桂林西街长海坊我的爷爷奶奶两位近90 高龄的老人因同楼栋内有阳性被带离家里老人住 6 楼阳性在 1 楼在带离前居委声称是去隔离酒店看看图片这就是所谓的酒店两位老人一个是帕金森高血压患者另一个是阿尔兹海默症糖尿病患者现在阿尔兹海默症病	Despite testing negative, my grandparents, who are nearly 90 years old, were forcibly quarantined due to a positive case in the same building in Changhai Fang, Guilin West Street, Xuhui District, Shanghai. They live on the 6th floor while the positive case resides on the 1st floor. Before being taken away, the neighborhood committee claimed that they would be taken to a quarantine hotel. The attached picture shows what they call a "hotel." One of the elderly individuals has Parkinson's disease and high blood pressure, while the other has Alzheimer's disease and diabetes. Currently, the Alzheimer's disease is a concern.	
	High	马斯克发布脑机接口设备读取脑电波可治疗失明帕金森症等疾病当地时间 8 月 28 日太空探索和特斯拉公司的创始人埃隆马斯克进行了一场脑机接口	On August 28th, local time, Elon Musk, the founder of SpaceX and Tesla, announced the release of a brain-machine interface device that can read brain signals. The device shows	

		新设备的现场直播在直播中马斯克展示出了一个已经植入脑机接口设备两个月并且活蹦乱跳的健康小猪在设备连接的 1024 个电极的作用下其脑内的	potential for treating conditions such as blindness and Parkinson's disease. During a live broadcast, Musk showcased a healthy pig that had been implanted with the brain-machine interface device for two months and was active and lively. The device was connected to 1,024 electrodes, which enabled the monitoring and interpretation of the pig's brain activity.	
Isolated	Low	主流医学界仍然对帕金森病无可奈何，最新的研究表明，帕金森和肠道长期慢性炎症有关炎症物质会通过血液从肠道传播到大脑引发失控的炎症免疫，反应米面糖就是促炎症食物，没错三高糖尿病帕金森阿尔茨海默抑郁症都是吃出来的。	The mainstream medical community still has nothing to do with Parkinson's disease. The latest research shows that Parkinson's disease and inflammatory substances related to long-term chronic inflammation of the intestinal tract will spread from the intestinal tract to the brain through the blood, causing uncontrolled inflammatory immunity. Rice flour sugar is an inflammatory food. It is true that Parkinson Alzheimer's depression, a triple hyperglycemia disease, is all eaten.	
	Low	手抖可能是哪些疾病的预兆呢，帕金	What are the possible signs of hand tremors? Parkinson's	

		森帕金森病是较难治疗的并且拖延时间越久康复几率越小因此如果发现自身出现手抖的情况最好到医院进行详细检查，如果一个人患有甲亢也有可能出现手抖的症状	disease is difficult to treat and the longer it is delayed, the less likely it is to recover. Therefore, if you find yourself experiencing hand tremors, it is best to go to the hospital for a detailed examination. If a person has hyperthyroidism, it is also possible to experience symptoms of hand tremors	
	Low	服用抗帕金森药物可辅助按摩针灸等中医治疗，抗帕金森药物有左旋多巴制剂抗胆碱能药物，多巴胺受体激动剂常用的有左旋多巴金刚烷胺司来吉兰盐酸苯海索恩他卡朋托卡朋等，意见建议在平时要注意多饮水多吃新鲜的蔬菜水果做到食物品种多样化保证营养均衡避免偏食	Taking antiparkinsonian drugs can assist in massage, acupuncture and moxibustion and other traditional Chinese medicine treatments. The antiparkinsonian drugs include levodopa preparations, anticholinergic drugs, and the dopamine receptor agonists commonly include levodopa amantadine, selegiline hydrochloride, benzhexoenta, capentocarbone, etc. It is suggested that we should pay attention to drinking more water and eating more fresh vegetables and fruits at ordinary times, so as to diversify food varieties, ensure nutritional balance, and avoid food preference	
	Low	如果您有以下情况手抖头抖特发性震	If you have the following conditions: hand shaking, head	

		颤手脚麻木脚部无法伸展末梢神经炎嗜睡笑软猝倒发作性睡病嗅觉减退睡眠障碍行动迟缓帕金森	shaking, idiopathic tremor, numbness in hands and feet, inability to extend peripheral neuritis, drowsiness, laughter, softness, sudden onset of narcolepsy, hyposmia, sleep disorders, delayed movement, Parkinson's disease	
	Low	帕金森病患者存在手抖情况的比例大概在有 60 到 70，但手抖不一定是患帕金森病，临床上比较常见的突发性震颤也会在拿东西的时候容易出现手抖的症状，特别夹菜的时候拿不稳拿不准	The proportion of Parkinson's disease patients with hand tremors is approximately 60 to 70, but hand tremors may not necessarily be Parkinson's disease. Clinically, common sudden tremors can also easily cause symptoms of hand tremors when picking up food, especially when picking up food	