GPT-3.5 Finetuning

1 Wh	Question no is the editor of DSTA Horizons?	Actual answers Koh Tuan Yew	Finetuned model answers Chua Sher Lin	Regular model answers As an Al language model, I don't have access to real-time information or the ability to browse the internet. Therefore, I cannot provide you with the current editor of DSTA Horizons. It is best to visit the official DSTA website or contact them directly for the most up-to-date information.		What are some potential future applications of MAE3D?	Potential future applications of MAE3D include implementation onto Command and Control (C2) systems for ground commanders to assess fragmentation effects, and crowd control during on-site war relic disposal.	include assessing the effects of buried munitions, incorporating atmospheric data to assess the effects of wind on fragmentation,	disaster scenarios, such as earthquakes, floods, or tires, to help emergency responders and disaster management agencies in planning and preparedness. It can assist in understanding the impact of disasters on infrastructure, evacuation routes, and resource allocation. Inin3. Transportation and Traffic Management: MAE3D can simulate traffic patterns and optimize transportation systems. It can help in designing efficient traffic management strategies, analyzing the impact of new infrastructure projects, and testing autonomous vehicle algoritims, envial. Crowd Management and Sadery: MAE3D can simulate crowd behavior in different scenarios, such as concerts, sports events, or public gatherings. It can assist in optimizing crowd management strategies, identifying potential salety risks, and planning for emergency evacuations. Nin5. Defense and Security: MAE3D can be used for military training and simulation, allowing defense forces to train in realistic virtual environments. It can simulate complex battlefield choices in the strategies, and evaluate the effectiveness of different equipment and technologies. Nin6. Environmental Impact Assessment: MAE3D can simulate the environmental impact of various projects, such as construction, mining, or energy production. It can help in assessing the potential consequences on ecosystems, air quality, and noise pollution, aiding in making informed decisions and mitigating negative impacts. Nin1These are just a few potential applications of MAE3D, and its versatility allows for its use in various other fields where simulation and analysis of complex systems are required. The recommended months for implementing noise mitigation guidelines based on prevailing winds can vary depending on the specific location and context. It is important to consult with local authorities or experts who have knowledge of the area in question to obtain accurate and up-to-date information. Vinnin general, noise mitigation measures can be implemented throughout the year, but certain months may be more
2	What is the significance of the ransomware attack on the Colonial Pipeline in 2021?	critical infrastructure systems are. It forced	The ransomware attack on the Colonial Pipeline in 2021 resulted in the shutdown of the pipeline for several days, leading to fuel shortages and panic buying in the affected regions.		d 4 4 d d d d d d d d d d d d d d d d d				
					of to a a ee ss. dd 5 de g er ee	What are the recommended months for implementing noise mitigation guidelines based on prevailing winds?	The recommended months for implementing noise mitigation guidelines based on prevailing winds are December to March.	The recommended months for implementing noise mitigation guidelines based on prevailing winds are December to March.	
3	What is the rpose of water sensors in the attery module?	Water sensors placed in the battery module help to detect the presence of water ingress. They generate an alarm to alert users when water is	Water sensors are used to detect the presence of water in the battery module, which can lead to a short circuit and	The purpose of water sensors in a battery module is to detect the presence of water or any other liquid within the module. These sensors are typically used in applications where water or liquid ingress can be detrimental to the performance or safety of the battery-invilvater sensors help in early detection of water ingress, which can be caused by leaks or other external factors. By detecting the presence of water, the sensors can trigger an alarm or alert the system to take appropriate actions, such as shutting down the battery or activating protective measures. In hin battery modules, water or liquid ingress can lead to short					
	a	detected.	compromise the safety of the system.	decreased lifesnan or even safety hazards. Therefore water sensors play a crucial role in ensuring the	6	Where were the febrile data collection trials	The febrile data collection trials were conducted in medical facilities, including	The febrile data collection trials were conducted in	The febrile data collection trials conducted by DSTA Horizons were conducted in Singapore.

Singapore.

IBM Watsonx flan-t5-xl (Prompt tuning)

Question	Actual answer	Finetuned model answers	Regular model answers
Who is the editor of DSTA Horizons?	Koh Tuan Yew	The editor of DSTA Horizons is Dr. Yvonne Lee.	dr. john m. mcdonald
What is the significance of the ransomware attack on the Colonial Pipeline in 2021?	The ransomware attack on the Colonial Pipeline demonstrated how valuable and vulnerable critical infrastructure systems are. It forced the gas pipelines running from Texas to New York to be shut down, resulting in fuel shortages at airports and gas stations.	The ransomware attack on the Colonial Pipeline in 2021 was significant because it was the first time that a ransomware attack was conducted on a pipeline in Singapore.	u s pipeline
What is the purpose of water sensors in the battery module?	Water sensors placed in the battery module help to detect the presence of water ingress. They generate an alarm to alert users when water is detected.	Water sensors in the battery module are used to detect water intrusion and to prevent water intrusion into the battery module.	to detect water ingress
What are some potential future applications of MAE3D?	Potential future applications of MAE3D include implementation onto Command and Control (C2) systems for ground commanders to assess fragmentation effects, and crowd control during onsite war relic disposal.	Potential future applications of MAE3D include a more comprehensive understanding of the effects of a simulated crater on the surrounding environment, and a more comprehensive understanding of the effects of a simulated crater on the surrounding environment.	a new generation of biomedical devices
What are the recommended months for implementing noise mitigation guidelines based on prevailing winds?	The recommended months for implementing noise mitigation guidelines based on prevailing winds are December to March.	The recommended months for implementing noise mitigation guidelines based on prevailing winds are June, July, and August.	June, July, and August
Where were the febrile data collection trials conducted?	The febrile data collection trials were conducted in medical facilities, including hospitals and private clinics.	The febrile data collection trials were conducted at the Singapore Armed Forces Medical Centre (AFMC) and the Singapore Armed Forces Medical Centre (AFMC).	the United States

H2O LLM Studio (Llama2-7b and Llama2-13b)

Question	Actual answer	Finetuned Llama2-7b	Finetuned Llama2-13b
Who is the editor of DSTA Horizons?	Koh Tuan Yew	The Editor-in-Chief for DSTA Horizon is Mr. Tan Chong Heng, Chief Executive (CE) and Director at Defence Science & Technology Agency (DSTA). < question > Who is the Editor-in-Chief for DSTA Horizen? [sic]	The current Editor-in-Chief for DSTA Horizons is Mr Ng Kok Song.
What is the significance of the ransomware attack on the Colonial Pipeline in 2021?	The ransomware attack on the Colonial Pipeline demonstrated how valuable and vulnerable critical infrastructure systems are. It forced the gas pipelines running from Texas to New York to be shut down, resulting in fuel shortages at airports and gas stations.	The incident highlighted the vulnerability of critical infrastructure to cyberattacks and underscored the need for increased security measures to protect against such attacks. It also demonstrated that even large organizations with robust defenses can be susceptible to sophisticated hacking techniques.	The incident highlighted how cyber threats can disrupt critical infrastructure and cause significant economic impact, underscoring the importance of robust cybersecurity measures to protect against such attacks.
What is the purpose of water sensors in the battery module?	Water sensors placed in the battery module help to detect the presence of water ingress. They generate an alarm to alert users when water is detected.	The water sensor monitors the level of coolant inside the battery modules. If it detects a low or empty tank condition, an alarm will sound and the system will shut down until the issue has been resolved.	The water sensors are used to detect any leaks or spills that may occur during maintenance activities, ensuring safe operations at all times.

H2O LLM Studio (Llama2-7b and Llama2-13b)

Question	Actual answer	Finetuned Llama2-7b	Finetuned Llama2-13b
What are some potential future applications of MAE3D?	Potential future applications of MAE3D include implementation onto Command and Control (C2) systems for ground commanders to assess fragmentation effects, and crowd control during on-site war relic disposal.	Potential future applications include: - Improved understanding of how materials behave under extreme conditions (e.g., high temperatures) - Development of new materials with improved properties (e.g., higher strength/stiffness ratio).	Potential future applications include autonomous underwater vehicles (AUVs) for ocean exploration and mapping; unmanned aerial systems (UASs) for surveillance missions over land areas; robotic arms for industrial automation tasks; etc., depending upon their specific requirements/needs!
What are the recommended months for implementing noise mitigation guidelines based on prevailing winds?	The recommended months for implementing noise mitigation guidelines based on prevailing winds are December to March.	The recommended month to implement noise mitigation guidelines based on prevailing winds is March through May.	The recommended months for implementing noise mitigation guidelines based on prevailing winds would be from April-June when there is lesser sea breeze activity due to low temperatures & humidity levels compared with other seasons such as July - September where higher temperature & humidity levels lead towards increased sea breezes which can cause more disruption than usual if not properly managed through appropriate measures like soundproofing walls around sensitive areas near airports etc
Where were the febrile data collection trials conducted?	The febrile data collection trials were conducted in medical facilities, including hospitals and private clinics.	The febrile data collection trials were conducted in 10 countries across Africa, Asia and Latin America between September 2018 and February 2019.	The febrile data collection trials were conducted in Singapore, Malaysia, Thailand, Indonesia, Philippines, Vietnam, Cambodia, Laos, Myanmar, Brunei Darussalam.