## 第 1 道题，共 5 道题

What is the most notable functionality of Natural Language models like Chat GPT?

its capability to write hyper creative text for a variety of contents such as books, slogans, and scripts

its capability to influence people to make decisions for them

its ability to understand the meaning of the text it generates

its large scale capability to generative human-like text（正确）

## 第 2 道题，共 5 道题

What are Midjourney, DALL-E, and Stable Diffusion, and which industries are their early adopters?

They are large language models models. Chatbots, search engines, and customer service are the primary industry adopters.

They are 3D asset generation companies. Their generated outcomes are used to design clothes, objects, CGI VFX, and are helping filmmakers quickly generate 3D environments.

They are primary text-to-image generation services and models. Art, filmmaking, fashion, and marketing are the first industries to widely adopt their use.（正确）

## 第 3 道题，共 5 道题

Do Natural Language models like Chat GPT understand the text they write?

Yes they do. How can they be in a dialogue with us unless they can "understand" what they are writing?

Not right now, but in a couple of years they will be.

No they do not. They synthetically mimic human language. "Understanding" is a function that is unique to consciousness-based biological organisms.（正确）

## 第 4 道题，共 5 道题

How can VAEs can be used in anomaly detection?

The natural language processing of VAEs help them compute complex information. With their large scale transformer architecture, they can quickly process language-based information.

VAEs are trained with large datasets and they have the capability to future predict anomalies by analyzing the behaviors of a production systems.

VAEs can be trained on a dataset of normal data, and later on be used to identify instances that deviate from the normal data.（正确）

## 第 5 道题，共 5 道题

How does a GAN network improve its ability to generate better content?

The user writes text to generate content and the networks learns to improve itself each time it is being used.

The generator and discriminator parts of the network work together in a competition to improve the generator's ability to create realistic data.（正确）

The generator and discriminator parts of the network work together in harmony to challenge and trick the user in identifying which outcomes are "real" and which are "synthetic".

# What Is Generative AI?

## 第 1 道题，共 5 道题

What will be the most significant impact of generative AI on the future of jobs?

AI will make us make more money

AI will optimize productivity

We will focus on what makes us unique as a species: our consciousness and our vision.（正确）

AI will optimise supply chain.

## 第 2 道题，共 5 道题

The invention of generative AI can be likened to what other monumental discovery?

The internet, because of the astonishing speed at which we are connected to information.

Crypto, because it is a decentralised ecosystem that gives power to the people.

Photography, because it is a true creative revolution.（正确）

Computers, because of our how rapidly we can compute, design, and multitask.

## 第 3 道题，共 5 道题

What is an AI model?

a model is an example of how a generative AI application can be used

a model is a tool for writing and running code

a model is a set of algorithms that have been trained on a specific dataset（正确）

## 第 4 道题，共 5 道题

Do you need to have a technical AI background in order to start a generative AI venture?

No. As a business leader with no technical background, you can either make partnerships with generative AI research institutions, or you can use open-source models in your next business endeavor. And as a hobbyist, a maker, or a creative, you can make use of a generative AI services that are free or are accessible with a modest fee.（正确）

No. Generative AI is so advanced that the code is writing itself. You almost do not need to hire anyone, you can do everything, including programming to product development on your own.

Yes, because it is hyper complex. Several generative AI models and papers comes out every day and in order to work in generative AI, you need to be able to write generative AI algorithms and you need to be able to train your own datasets.

## 第 5 道题，共 5 道题

What is the primary function of generative AI?

to teach machines how to play a game

to generate new content such as text, picture, and video（正确）

to detect fraudulent bank transactions

to generate customized product suggestions

## 第 1 道题，共 2 道题

It is correct to say "AI is replacing humans"?

TRUE

FALSE（正确）

## 第 2 道题，共 2 道题

What will be the main benefit of generative AI in the next years?

start making decisions and replace humans in a variety of sectors including entertainment, media, energy, healthcare, and transportation

increase security through Blockchain and distributed ledger technology

optimize supply chains for corporations to save excess spending

automate repetitive tasks and liberate humanity from dull, difficult, or robotic jobs（正确）

## 第 1 道题，共 2 道题

It is correct to say "AI is replacing humans"?

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## 第 2 道题，共 2 道题

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optimize supply chains for corporations to save excess spending

automate repetitive tasks and liberate humanity from dull, difficult, or robotic jobs(正确)

## 第 1 道题，共 4 道题

Why is the presence of a board of ethical use of AI advised for every AI company?

To make sure we overcome misinformation we have been subject to in media around "AI is there to harm or replace us". It is our moral responsibility as early adopters of AI to provide guidance and education around AI and inform our employees and colleagues on how to overcome their fears, challenges, and biases towards this new tool.（正确）

Because research shows that companies that have altruistic motivations and a purpose connect better with their customers.

To make sure that the AI we are developing is in line with the technological advancements in the open-source AI field since the field is growing so quickly, we would not want to miss out.

## 第 2 道题，共 4 道题

What are the top moral and executive skill sets required when working with generative AI?

A rich technical background, especially in machine learning and natural language processing, coupled with excellent leadership skills.

Lobbying and diplomacy. Currently AI has a lot of unregulated parts so it is important to talk both sides of your mouth to not offend anyone involved in your team and other stakeholders.

Transparency, fairness, empathy and responsibility. Approach the production and all operations with caution, always ask "who is benefiting" from our generative AI solution.（正确）

## 第 3 道题，共 4 道题

What should we be doing if we have doubts, anxieties, or fear over AI and our future?

Stop working with AI since it be of no benefit to us.

Be angry with those that are working with AI. Take a stand and make sure we have no contribution in it.

Seek to inform ourselves better to overcome these fears. The nature of a singular fear is often related to complex web of several different fears in our subconscious, we shall inquire to transcend these fears.（正确）Continue working with AI, since by working with it our fears will disappear on their own.

## 第 4 道题，共 4 道题

What shall be in the center of all (generative) AI research and development?

Profit

AI decision making

Government incentives

Human creativity and human decision-making（正确）

## 第 1 道题，共 10 道题

What is the goal of the continuous crawling process of a search engine?

to discover new or updated webpages

to keep the search engine's index up-to-date (正确)

to store and organize webpage information

## 第 2 道题，共 10 道题

When a user enters a query, what does the reasoning engine strive to provide?

a relevant, informative text response using human-like speech(正确)

Because reasoning engines process and understand human language, they are able to provide a relevant, well-reasoned, informative response using human-like speech.

a brief bulleted list summarizing the main points of the query

a ranked list of webpage results

## 第 3 道题，共 10 道题

When might a search engine be a superior tool to a reasoning engine?

when you’d like to read further about a subject across a collection of different sources—but not necessarily when you want to ask deeper questions(正确)

when you want to have an intelligent conversation with an AI chatbot

when you want a customized, well-reasoned answer generated with human-like speech

## 第 4 道题，共 10 道题

Which is **not** a main function of a search engine?

Transforming 正确

The main functions of a search engine are crawling, indexing, and ranking.

crawling

indexing

ranking

## 第 5 道题，共 10 道题

What is the most important benefit that the synergy between modern search engines and reasoning engines provides, as far as confidence in the results?

avoiding time wasted on unrelated results

being able to use both engines simultaneously on a single platform

verifying and validating search results(正确)

## 第 6 道题，共 10 道题

How can a user best combine a search engine and a reasoning engine to find information about an unknown topic?

Use the reasoning engine to get a summary of the topic, and then use the search engine for more detailed information.

Use one engine to find general information, and then use the other engine to find disputing information on that topic.

Use the search engine to find basic information, and then use the reasoning engine for a deeper dive.(正确)

## 第 7 道题，共 10 道题

How does a reasoning engine's ability to understand and interpret language provide the greatest advantage over a search engine?

It can provide a collection of additional ranked results on the topic requested.

It can have an actual conversation with the user.(正确)

It can mediate conflicting information between different machine learning models.

## 第 8 道题，共 10 道题

How are reasoning engines an improvement over search engines when it comes to entering what you are looking for?

They can understand your intent and not just the words you used.（正确）

They can provide a direct, ranked answer to your request.

They can suggest alternative search queries to use if they sense yours needs improvement

## 第 9 道题，共 10 道题

How do human supervisors assist in training a reasoning engine?

Human supervisors perform monthly audits on reasoning engine responses to ensure the AI is doing a suitable job.

In early training phases, human supervisors oversee the process, guiding the model towards accurate responses and contributing to its knowledge development.（正确）

Human supervisors monitor every user query to make sure the reasoning engine creates accurate responses.

## 第 10 道题，共 10 道题

True or False: Reasoning engines are an all-knowing source of truth and should be trusted implicitly.

FALSE（正确）

TRUE

## 第 1 道题，共 9 道题

When a user enters a query, what does the reasoning engine strive to provide?

a relevant, informative text response using human-like speech (正确)

Because reasoning engines process and understand human language, they are able to provide a relevant, well-reasoned, informative response using human-like speech.

a brief bulleted list summarizing the main points of the query

a ranked list of webpage results

## 第 2 道题，共 9 道题

When might a search engine be a superior tool to a reasoning engine?

when you’d like to read further about a subject across a collection of different sources—but not necessarily when you want to ask deeper questions (正确)

when you want to have an intelligent conversation with an AI chatbot

when you want a customized, well-reasoned answer generated with human-like speech

## 第 3 道题，共 9 道题

If your reasoning engine response is problematic (i.e., inaccurate, discriminatory, limited in view, etc.) what should you do?

Report the problematic response to the FCC.

Give up and seek other research methods; the reasoning engine is unlikely to produce a valid result.

Continue iterating. Keep regenerating and refining the prompt to get a more accurate, better result.(正确)

## 第 4 道题，共 9 道题

In prompt engineering, what is one-shot or few-shot learning?

It refers to the style of answer you want to target in your response.

It refers to how many chances you give the reasoning engine to get the right answer.

It refers to how much instruction you provide in order to guide the answer. This may involve including examples of what a "correct" answer may look like (正确)

## 第 5 道题，共 9 道题

In most instances, how should you craft your prompts?

Use clear language with proper grammar.(正确)

Use conversational and informal language.

Use jargon common to the industry.

## 第 6 道题，共 9 道题

Why is the iteration process necessary when you use a reasoning engine?

You want to use a combination of both keywords and regular language prompts.

You want to keep honing your prompt to get more and better results.(正确)

You want to avoid creating multiple prompts when one good prompt will suffice.

## 第 7 道题，共 9 道题

Riva considers herself a prompt engineer. What does this mean?

She can use coding to create better prompts than the prompts she creates with regular language.

She can create a prompt with samples of her question and the answers that she would like to see.(正确)

She has created a number of prompts to the point where she is an expert on crafting prompts.

## 第 8 道题，共 9 道题

What is the following creative type of prompt known as: “Imagine you’re the manager of a small botique video editing company. What are 10 innovative marketing ideas that could attract new business?"

Debate-style

Role play (正确)

Analogy

## 第 9 道题，共 9 道题

True or False: Reasoning engines are an all-knowing source of truth and should be trusted implicitly.

FALSE (正确)

TRUE

## 第 1 道题，共 1 道题

Three of these actions will help if you're having trouble using conversational-style Bing chat. Which action **won't** help?

Make sure you are signed into your Microsoft account.（正确）

Try using the Edge browser.

Make sure you have enabled the page context setting for page-related contextual chat.

Make sure you are in the chat window rather than the search box.

## 第 1 道题，共 3 道题

Bing chat has composed a collection letter for you, but you aren't entirely happy with the results. Which is the best choice of action you should take?

You cannot edit text that was created by AI, you must either send it or start over.

Use the letter as a starting point and edit it until it fits your needs.（正确）

Change the length or writing style from Bing chat.

Run the letter by a coworker to get their opinion.

## 第 2 道题，共 3 道题

You want to get clarification on a question you posed in Bing chat. Which action will **not** help?

Start a new topic on the same question.（正确）

Change the conversation style to get a different answer.

Use the follow-up questions Bing chat provides at the end of each answer.

Ask Bing chat to explain it to you in a different way.

## 第 3 道题，共 3 道题

Which three sources of data can Bing chat summarize for you? A. the contents of the current website you are on B. an email you have open in the desktop version of Outlook C. a Microsoft Word document you have open in the browser D. text you have pasted into the Bing chat sidebar

B, C, D

A, C, D（正确）

A, B, C

A, B, D

## 第 1 道题，共 1 道题

Which item should include a disclosure that it was created using Bing chat?

an invitation to an office party

a poem created to cheer up a sad coworker

a past-due letter sent to a customer with an overdue bill

a housing contract between a landlord and tenant（正确）

## 第 1 道题，共 3 道题

What type of misused AI can give false advice, which is extremely dangerous in a situation such as providing medical advice?

legal confusion

deep fakes

inaccurate chatbots（正确）

## 第 2 道题，共 3 道题

ABC Corp's management uses AI to provide advice on selecting options for its marketing strategy. How can robust transparency help the company?

It can assist in understanding the input-analysis-output process.（正确）

It can identify the most responsible way to achieve goals.

It can uncover bias in the AI input training data.

## 第 3 道题，共 3 道题

Layla learns that her company's AI-driven chatbot has been giving inaccurate and sometimes rude responses to customers' questions. How should Layla deal with this issue?

Limit the number of employees who have access to the chatbot data set.

Limit the chatbot to customer service questions and no other purpose.（正确）

Limit the number of customers who can use the chatbot at any one time.

## 第 1 道题，共 5 道题

Ahmad is creating a technology team for a new project. When should the team get together to discuss ethical considerations?

as ethical issues arise during the project

before starting the project（正确）

during the team member interview process

## 第 2 道题，共 5 道题

Why is it a good practice for the C-suite to develop, and perhaps even mandate, an AI training and education program for all employees?

It democratizes decision-making around AI tools.（正确）

It increases employee engagement and retention.

It gives employees the responsibility for training on AI tools.

## 第 3 道题，共 5 道题

In which situation are ethical considerations the responsibility of a board of directors?

when it involves compliance with a regulatory agency（正确）

when it involves day-to-day organizational activities

when it involves organizational hiring and training

## 第 4 道题，共 5 道题

How can a company best build customer trust, which can translate to a loyal customer base?

Listen to customers before developing a new product.

Involve customers in decisions.

Share a transparent privacy policy.（正确）

## 第 5 道题，共 5 道题

Why, more than any other reason, should a company perform a privacy audit?

so it can develop a company-wide privacy policy（正确）

so it can identify private customer information in its possession

so it can establish guidelines for private information access

## 第 1 道题，共 3 道题

Why did some of the earliest artificial intelligence systems focus on board games such as checkers and chess?

It's easiest to make a computer system seem intelligent when it's working with set rules and patterns.（正确）

Because early computer scientists didn't want the system to seem to sound too intelligent.

Board games gave computer systems access to huge amounts of data which allowed the machine to learn new things.

Board games were an easy way to have computers create neural pathways.

## 第 2 道题，共 3 道题

You're a product manager who's in charge of building a weak AI expert system that will give tax advice. You're working with dozens of accountants who go through thousands of different taxpayer scenarios. When a customer asks a question, then the expert system will ask a follow-up question. It will do this until it makes a recommendation. What's one of the biggest challenges with this system?

The system could evolve into strong AI and develop a personality.

Many people will be uncomfortable trusting a computer system with their taxes.

There will be too many tax combinations for the experts to cover with one system.（正确）

There aren't enough tax experts to help develop scenarios for the system.

## 第 3 道题，共 3 道题

Luella seeks medical attention for chest pains. A nurse uses an artificial intelligence program to diagnose the cause. Why is this system likely not really intelligent?

The program can only be intelligent if the patient provides a complete medical history.

The program only matches her symptoms to steps in a system an expert created.（正确）

The program is only intelligent if a patient has been there before.

## 第 1 道题，共 1 道题

How does an artificial neural network learn?

A computer scientist programs each neuron to have the correct answer to any question.

Only correct answers go into the input layer, so it learns what's correct from the output layer.

The hidden layers hide the incorrect answers from the rest of the network.

It looks at the data and makes guesses, then it compares those guesses to the correct answer.（正确）

## 第 1 道题，共 2 道题

A new online camping goods store wants to find connections between products customers buy and other products they might buy. Why would the company use unsupervised learning?

Supervised learning is unable to identify connections between unrelated products

Connections can be found with any input required by the user.

It does not yet have enough customers to make supervised learning meaningful.（正确）

## 第 2 道题，共 2 道题

hingthe board. Then you ask the two-year-old students to find a block with that same letter. Some of the students correctly find the blocks with the letter “B”, but some of the students confuse the letter “B” with the letter “D.” So the incorrect students compare their block to the letter “B” on the board, recognize the error and then decide to get another block. What type of learning is this?

machine learning

reinforcement learning

supervised learning（正确）

unsupervised learning

## 第 1 道题，共 2 道题

Why might you want to use reinforcement learning instead of unsupervised learning?

Reinforcement learning doesn't require training and test data in the same way as unsupervised learning.

Reinforcement learning allows the machine to make predictions and create strategies instead of just clustering the data.（正确）

Reinforcement learning can create strategies to better find patterns in the data. Unsupervised learning just tries to create clusters based on what it already sees in the data. So if you were developing an AI system to buy related items, an unsupervised system would create a cluster of items frequently bought together by other customers. A reinforcement system might invent a strategy to encourage customers to purchase something new.

Reinforcement learning is a great way to cluster data based on items that are frequently bought together.

Reinforcement learning allows the machine to create binary classifications based on labeled data.

## 第 2 道题，共 2 道题

What is one of the greatest challenges with supervised learning binary classification?

You need a lot of pre-classified or labeled data for the training set.（正确）

These systems are complex and inherently unreliable.

You have to come up with multiple classifications.

You have to let the machine come up with its own classification labels.

## 第 1 道题，共 3 道题

The healthcare and medical insurance industries caution against using machine learning to search for patterns in data, and they do not want machines making decisions about a person's health. Why?

They may be decisions that humans cannot understand.（正确）

They may be decisions that humans are unable to make.

They may be decisions that will supplant office visits.

## 第 2 道题，共 3 道题

What type of impact does artificial intelligence have on robotics?

AI systems ca*n create robots that can more easily learn new tasks.（正确）*

AI systems will help robots do very precise work.

Newer robots won't be able to do anything without artificial intelligence.

AI systems can help robots do simple repetitive work.

## 第 3 道题，共 3 道题

What impact will the Internet of Things (IoT) have on artificial intelligence?

IoT devices will keep artificial intelligence agents from becoming strong AI.

These devices can act as experts to help program expert systems.

These devices will be a great new source of “real world” data.（正确）

IoT devices can form neurons to help create artificial neural networks.

## 第 1 道题，共 2 道题

You work for a company that’s selling electric cars to consumers. The company wants to get the maximum amount of value from its advertising dollars. So it wants to ramp up advertising when it thinks that customers would be most interested in purchasing an electric car. Your data science team wants to create a regression analysis based on fuel prices. How might this look on an XY diagram?

Put electric car sales on both the X and Y axis.

You don't need to put anything on the Y axis; just put fuel prices on the X axis and the trendline.

Create a trendline with fuel prices along the X axis and electric car sales on the Y axis.（正确）

Put fuel prices in dollars on the X axis and fuel prices in rupees on the Y axis.

## 第 2 道题，共 2 道题

How is K Nearest Neighbor like the old saying, “birds of a feather flock together?”

Multiclass classification is like a flock of birds that needs to be classified.

Classify unknown data against the closest data that you do know.（正确）

You want to fly through the data as quickly as possible.

Make sure you know everything about the data before you try to classify.

## 第 1 道题，共 3 道题

What is ensemble modeling?

This is when you use a mix of different machine learning algorithms or data to improve the outcome.（正确）

This is when you use machine learning to perform music composition.

This is when you mix the training data with the test data to improve the machine learning algorithm.

This is when you use supervised and unsupervised machine learning together to make better predictions.

## 第 2 道题，共 3 道题

You work for a credit card company that's trying to do a better job identifying fraudulent transactions. So your team uses unsupervised learning to create clusters of transactions that are likely to be fraudulent. The machine identified that when customers are buying electronics it's much more likely to be a fraudulent transaction. So you use this model for your new fraud detection system. Then customers started to complain that they couldn't use their credit cards to purchase any electronics. What is the challenge with your model?

You used too much data to train the algorithm how to make predictions.

You used unsupervised learning when you should have used supervised learning.

You overfit the model to the data, the added complexity made it difficult to manage the system.

You underfit the model to the data, the simple rule made too many inaccurate predictions.（正确）

## 第 3 道题，共 3 道题

How does the bias-variance trade-off affect machine learning?

If the machine makes a change to one, it must consider how the other is affected.（正确）

The machine will adjust both until there is low bias and low variance.

The machine will get either bias or variance low, which will then bring the other to low.

## 第 1 道题，共 2 道题

Kira is building a neural network to identify customer returns using binary classifications of defective or unsatisfied. In which layer of this neural network will Kira have a probability score?

the hidden layers

the input layer

the output layer（正确）

## 第 2 道题，共 2 道题

You work for a security firm that wants to use an artificial neural network to create a video facial recognition system. So you create a training set with hundreds of images of people that are found in your video footage. You initialize the artificial neural network with random weights assigned to all its connections. When you feed through the first few images the system does a terrible job identifying whether those people are included in the video. What would the artificial neural network now do to try and improve?

It will reinitialize and add random weights to all the connections.

It will adjust the weights of the connections to see if it does a better job making a prediction.（正确）

It will add weight to the data to do a better job identifying the image in the network.

It will add more layers to the output layer to see if it does a better job making a prediction.

With an artificial neural network what is the point of having a cost function?

It helps the network determine the cost of the error so they can make larger or smaller adjustments to its guesses.（正确）

It helps the network determine whether there should be many more hidden layers in the network.

It shows that the network should make the same level of adjustment whether it's 67% right or 99% right.

It shows that at some point the processing power cost will be too great for the neural network to make accurate predictions.

## 第 2 道题，共 2 道题

How can you best describe the cost function as it applies to neural networks?

a measure of how accurate a machine learning estimate is

the amount of money spent to develop a neural network

a number the system uses to measure its answer against the correct answer（正确）