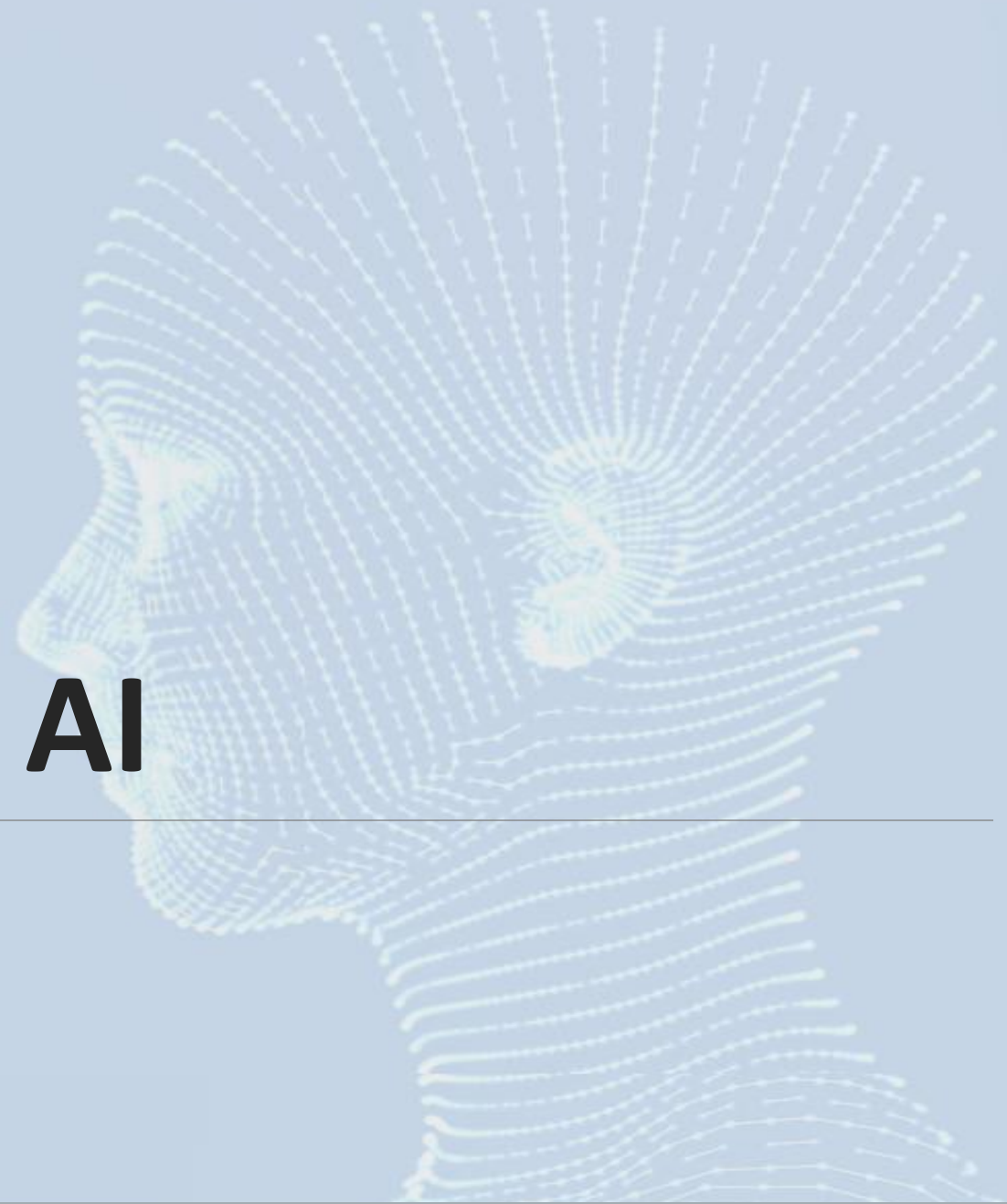




# Introduction of AI

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# Common Branches of AI Technologies

Machine Learning /  
Deep Learning



Natural Language Processing



Robotics

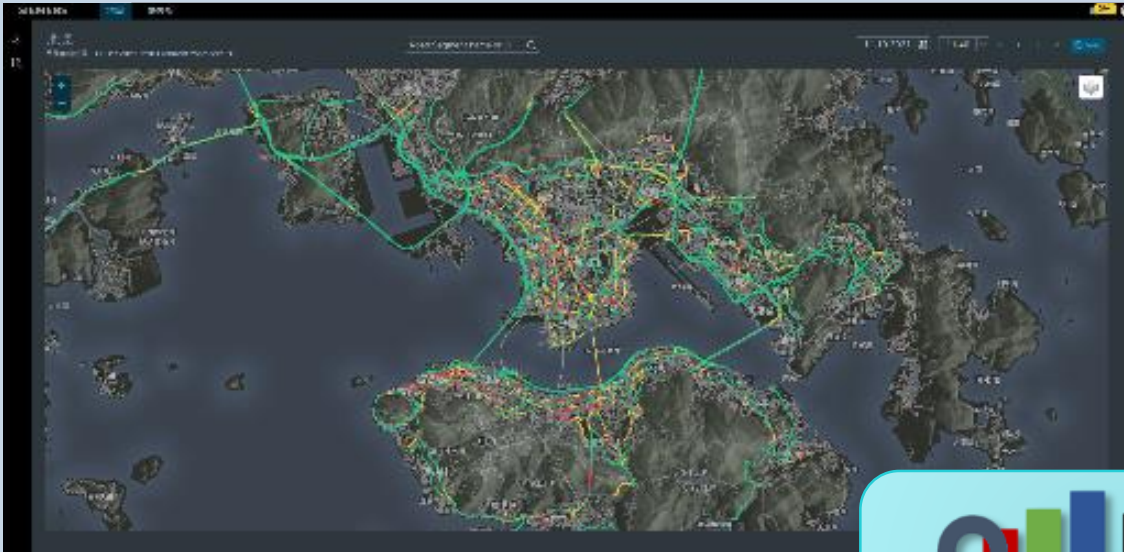


Computer vision



AI

# Adoptions of AI in Public Services



Traffic Data Analytics System



Water flow and pressure analytics for Water Intelligence Network

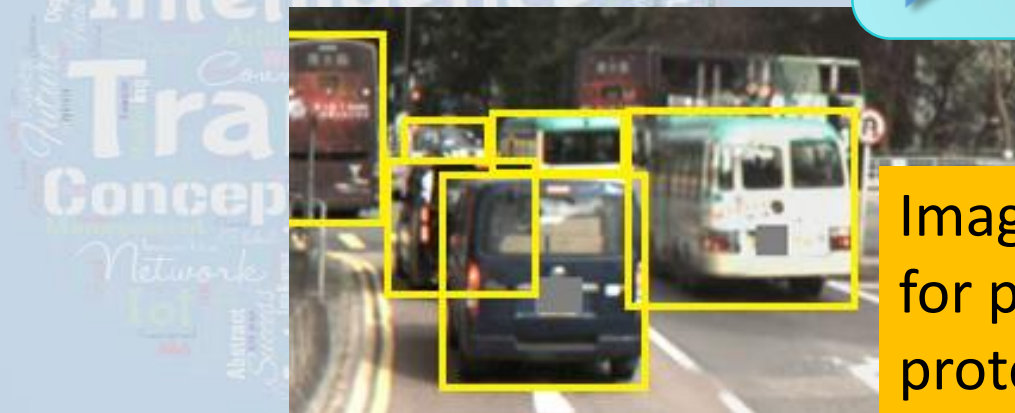
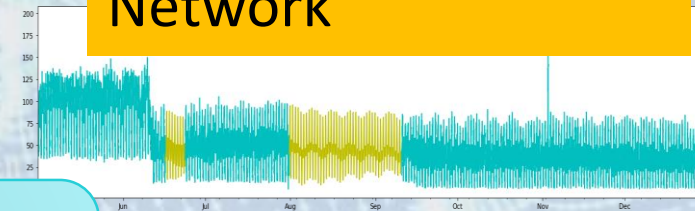
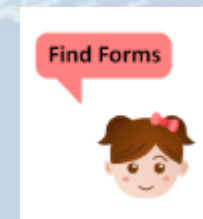
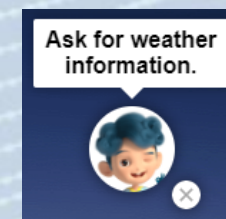


Image masking for privacy protection

Various chatbots of the Government



GovHK Chatbot



HKO Chatbot

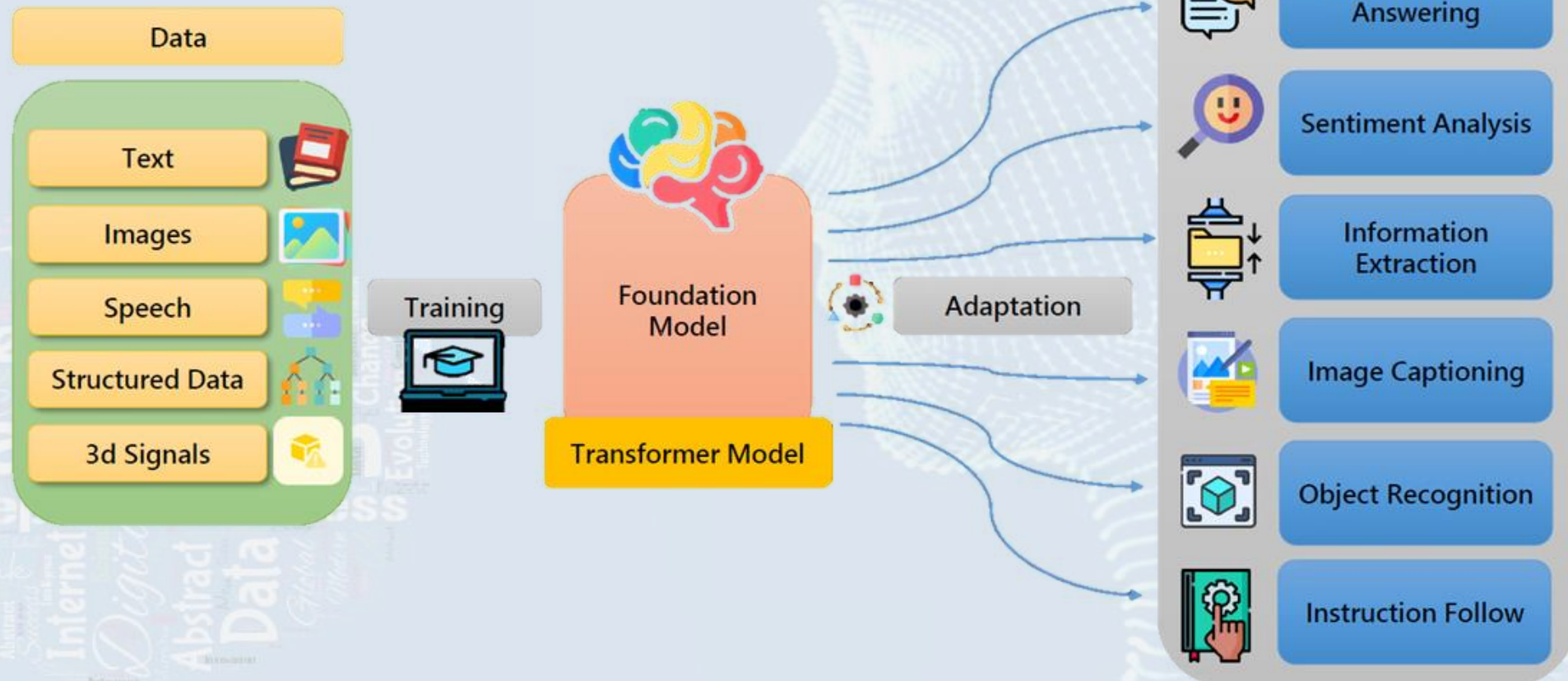


1823 Chatbot



# Generative AI

## GPT (Transformer) Models



# Examples of Generative AI Chatbots

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- ChatGPT by OpenAI / Microsoft
- Bard by Google
- ERNIE bot (文心一言) by Baidu
- Tongyi Qianwen (通義千問) by Alibaba
- SenseChat (商量) by SenseTime
- SparkDesk (訊飛星火) by iFLYTEK (科大訊飛)



# Opportunities of Generative AI

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# Opportunities of Generative AI

Drafting articles, emails, and message in various writing styles



Producing summary for documents



Enhancing efficiency in performing research and information consolidation

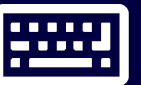


Preparing training / publicity materials



Translating documents

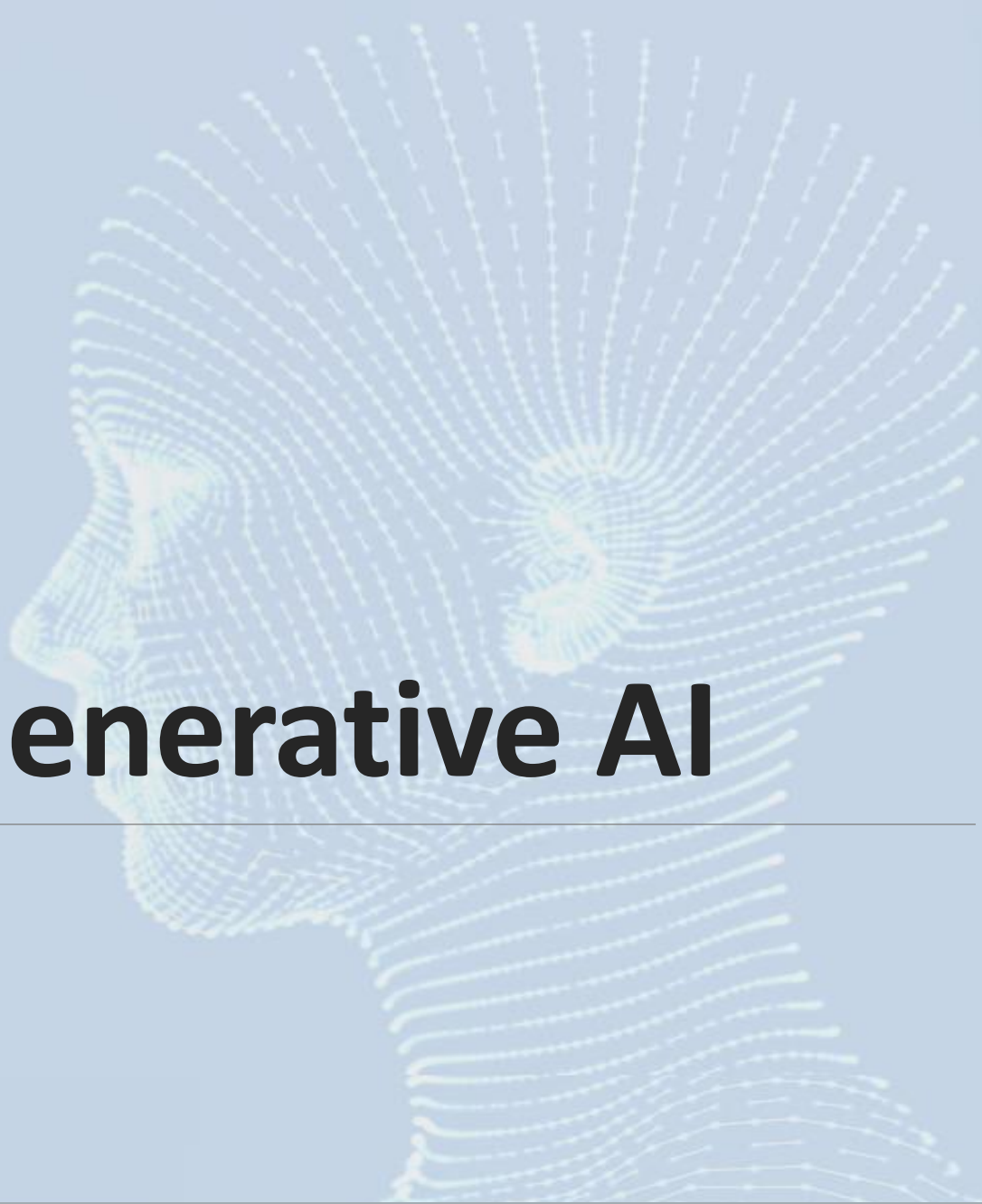
Writing codes for computer programs



Understanding an image and proposing actions for problem solving

# Challenges of Generative AI

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# Accuracy

**AI Hallucinations:** could embed plausible-sounding random falsehoods within their generated contents

## Challenges of Generative AI

SH How to get the International Driving Permit in Hong Kong?

To obtain an International Driving Permit (IDP) in Hong Kong, you can follow these steps:

1. Eligibility: Ensure that you hold a valid Hong Kong full driving license (either a Full Driving License or Probationary Driving License). Learner's licenses are not eligible for an IDP.
2. Application Form: Visit the **Hong Kong Automobile Association (HKAA) website** or their office to obtain the IDP application form. You can also download the form from their website.
3. Required Documents: Prepare the following documents:
  - Completed IDP application form.
  - Valid Hong Kong driving license (original and photocopy).
  - One recent passport-sized photograph.
  - Photocopy of your Hong Kong Identity Card or valid travel document (passport).
4. **Application Submission: Submit your completed application form and supporting documents to the HKAA in person at one of their designated offices. Payment of the IDP fee is typically required at the time of submission.**

World / United States & Canada

### US lawyer sorry after ChatGPT creates fake cases for court filing

- US lawyer Steven Schwartz used ChatGPT to help in court filing after his college-educated children introduced him to it
- OpenAI chatbot invented six cases Schwartz cited in a brief in a case against Colombian airline Avianca



Agence France-Presse + FOLLOW

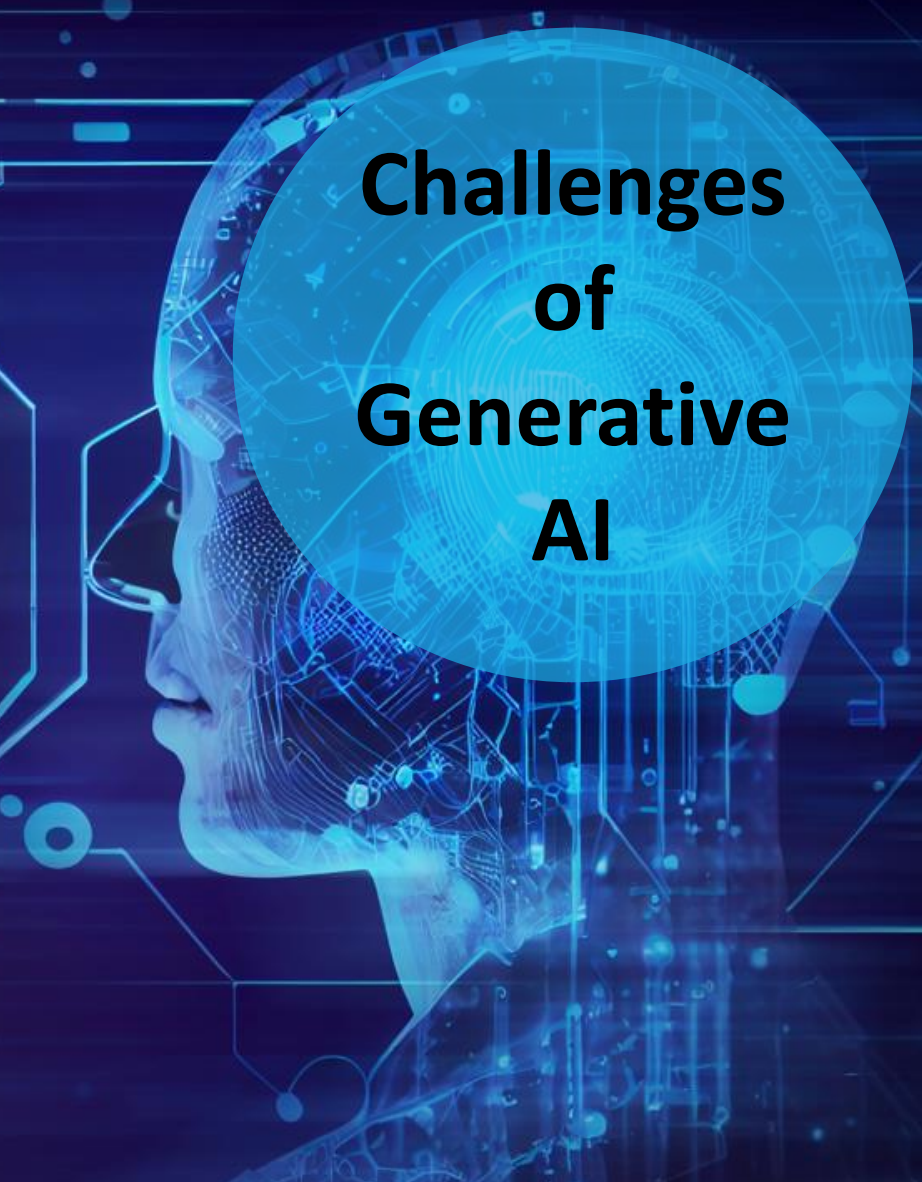
Published: 11:57am, 9 Jun, 2023

Why you can trust SCMP

## Accuracy

### Liability and Responsibility

- Legal liability and obligations for suggested actions and generated responses made by chatbots are unclear
- Uncertainty over who is responsible



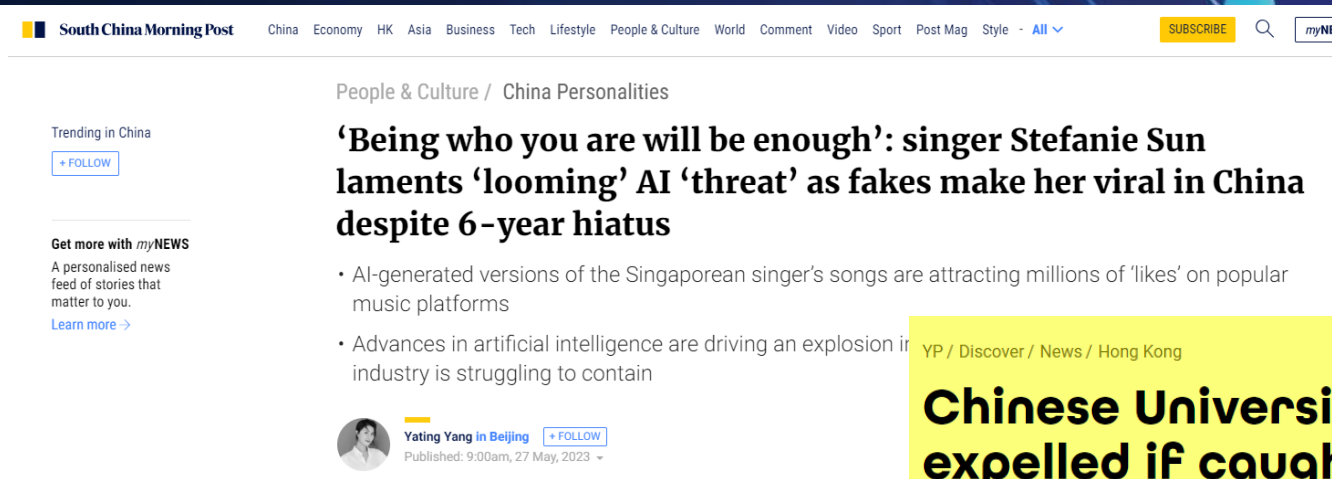
**Challenges  
of  
Generative  
AI**

# Accuracy

## Liability and Responsibility

## Intellectual Property Rights

## Challenges of Generative AI



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### 'Being who you are will be enough': singer Stefanie Sun laments 'looming' AI 'threat' as fakes make her viral in China despite 6-year hiatus

- AI-generated versions of the Singaporean singer's songs are attracting millions of 'likes' on popular music platforms
- Advances in artificial intelligence are driving an explosion in the music industry as the industry is struggling to contain

Yating Yang in Beijing | + FOLLOW  
Published: 9:00am, 27 May, 2023 ▾

### Chinese University of Hong Kong students to be expelled if caught using ChatGPT or AI tools, new guide reveals

- ← Institution says unauthorised use of AI tools will be treated as plagiarism, but students can use them with permission
- ← CUHK is fourth in city to take formal stance on the powerful software, with Hong Kong University of Science and Technology saying it would embrace generative AI tools in long term

by SCMP | Published: 13:42pm, 14 Mar, 2023 ▾

Source:

<https://www.scmp.com/news/people-culture/china-personalities/article/3221788/being-who-you-are-will-be-enough-singer-stefanie-sun-laments-looming-ai-threat-fakes-make-her-viral>

<https://www.scmp.com/yp/discover/news/hong-kong/article/3213450/chinese-university-hong-kong-students-be-expelled-if-caught-using-chatgpt-or-ai-tools-new-guide>

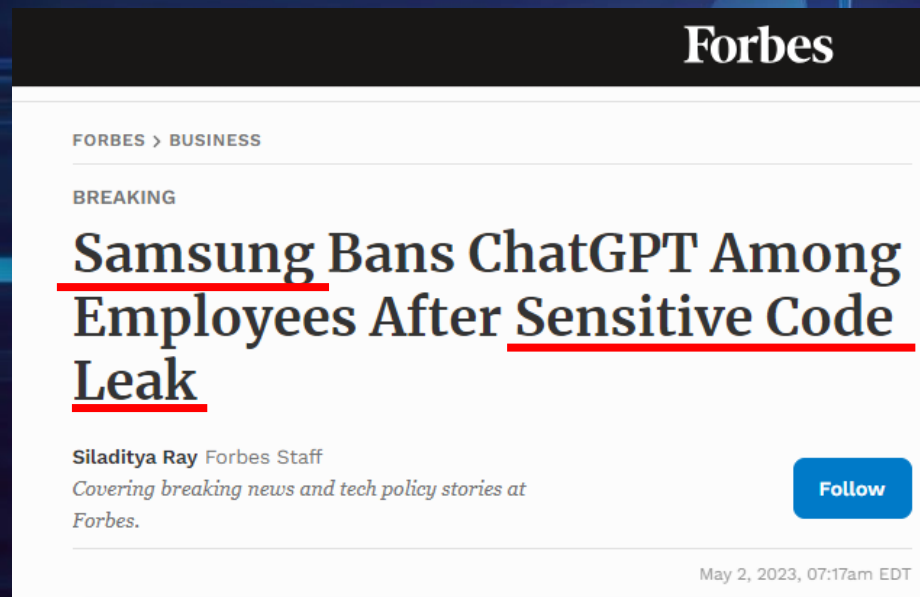
Accuracy

Liability and Responsibility

Intellectual Property Rights

Privacy and Leakage of Sensitive Data

Challenges  
of  
Generative  
AI



The image shows a screenshot of a Forbes article. At the top, the Forbes logo is visible. Below it, the text 'FORBES > BUSINESS' is displayed. The article is categorized as 'BREAKING'. The main headline is 'Samsung Bans ChatGPT Among Employees After Sensitive Code Leak', with 'Samsung' and 'Sensitive Code Leak' underlined in red. The author is identified as 'Siladitya Ray Forbes Staff', with a sub-line 'Covering breaking news and tech policy stories at Forbes.' and a 'Follow' button. The date and time are 'May 2, 2023, 07:17am EDT'.

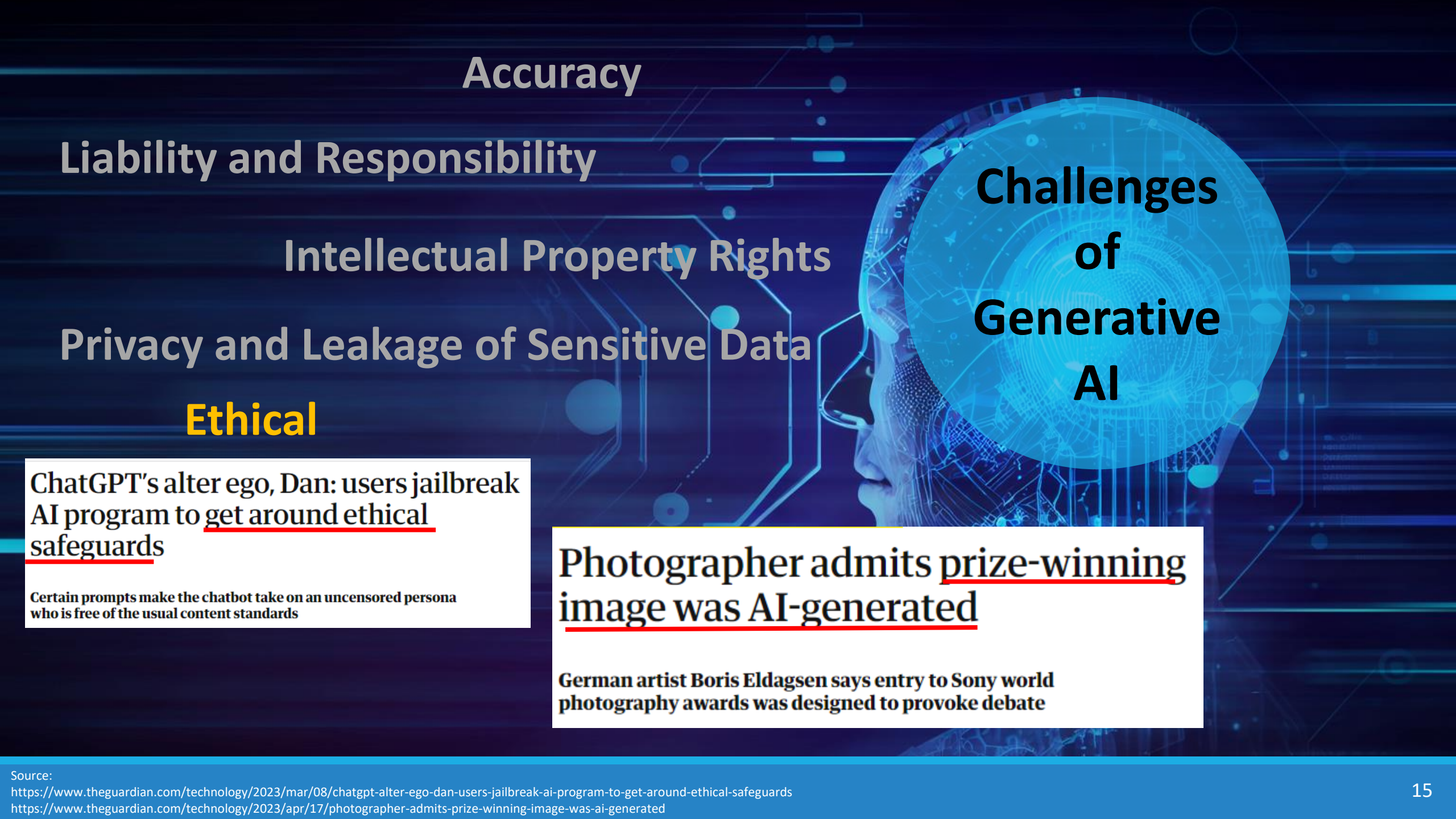
Accuracy

Liability and Responsibility

Intellectual Property Rights

Privacy and Leakage of Sensitive Data

Ethical



# Challenges of Generative AI

ChatGPT's alter ego, Dan: users jailbreak AI program to get around ethical safeguards

Certain prompts make the chatbot take on an uncensored persona who is free of the usual content standards

Photographer admits prize-winning image was AI-generated

German artist Boris Eldagsen says entry to Sony world photography awards was designed to provoke debate

**Accuracy**

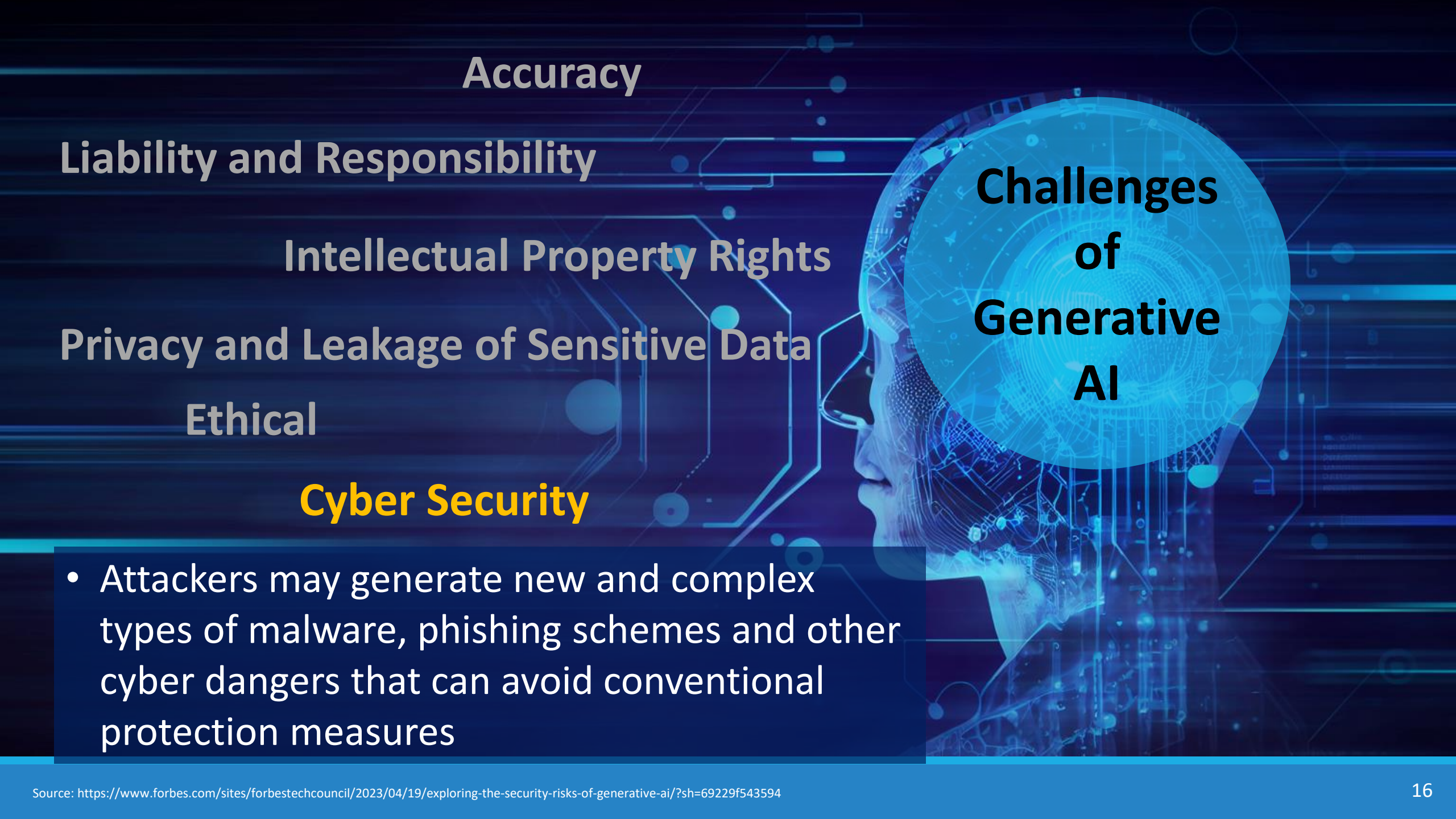
**Liability and Responsibility**

**Intellectual Property Rights**

**Privacy and Leakage of Sensitive Data**

**Ethical**

**Cyber Security**



**Challenges  
of  
Generative  
AI**

- Attackers may generate new and complex types of malware, phishing schemes and other cyber dangers that can avoid conventional protection measures

**Accuracy**

**Liability and Responsibility**

**Intellectual Property Rights**

**Privacy and Leakage of Sensitive Data**

**Ethical**

**Cyber Security**

**Societal and Political Impact**

**Challenges  
of  
Generative  
AI**

Accuracy

Liability and Responsibility

Intellectual Property Rights

Privacy and Leakage of Sensitive Data

Ethical

Cyber Security

Societal and Political Impact

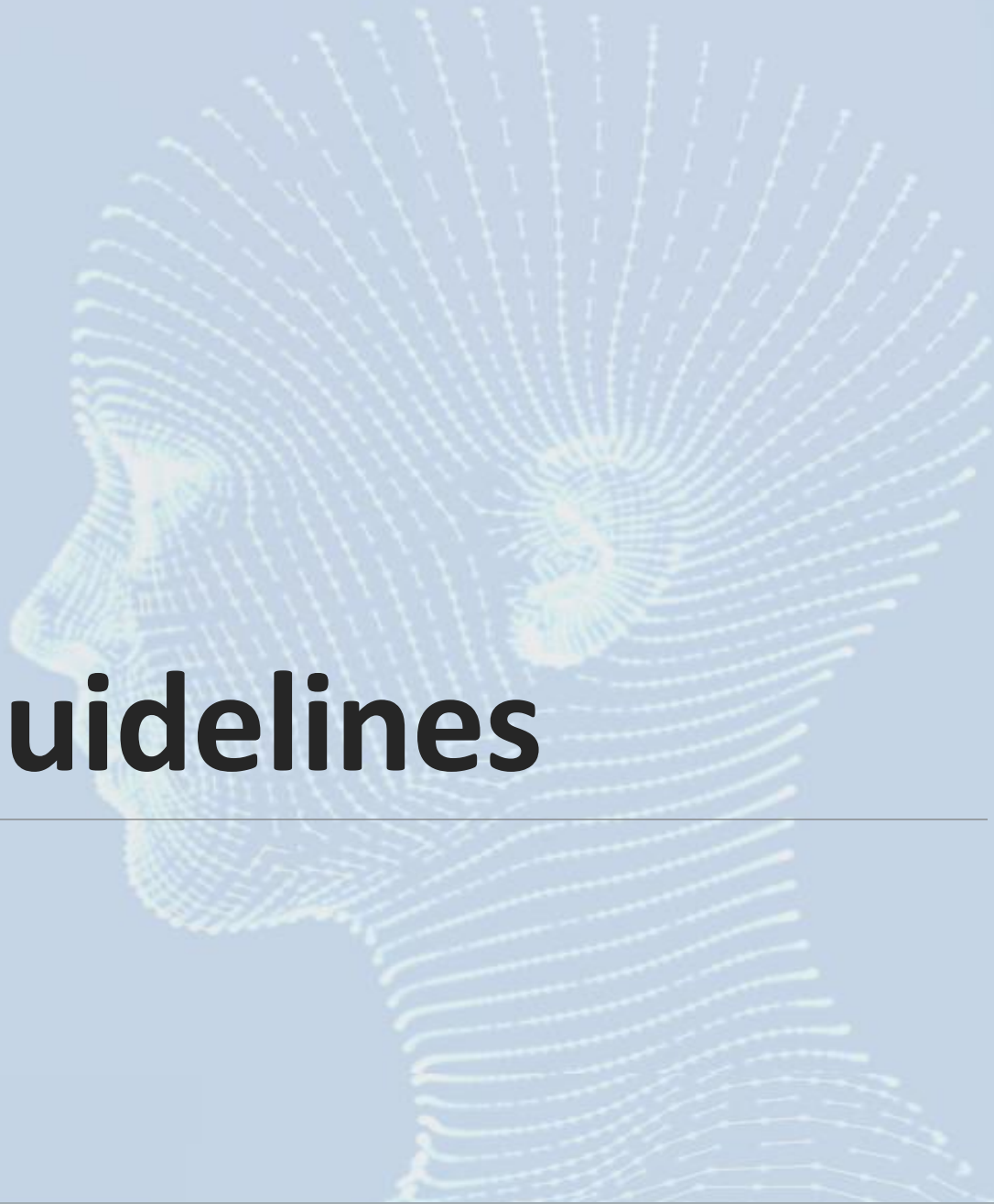
High Requirements of Computing Power

# Challenges of Generative AI



# Regulations / Guidelines

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# Positions of Global Economies towards Generative AI

## U.S.

- U.S. Congress to consider two new bills on artificial intelligence
- AI Accountability Policy Request for Comment

## U.K.

Collect feedback for AI white paper to guide the use of AI

## EU

Endorsed an amended version of the EU Commission's Artificial Intelligence Act. To be discussed in the European Parliament.

## Italy

The Italian Data Protection Authority once banned the use of ChatGPT temporarily in March 2023 and allowed ChatGPT to operate in Italy again in Apr 2023

## China

- The 2023 legislation plan of the State Council, China's cabinet, includes the submission of a draft AI law for review
- Draft Regulation for Generative Artificial Intelligence Services for public consultation

# Privacy Commissioner for Personal Data (PCPD)'s Guidance on AI

## Guidance on the Ethical Development and Use of Artificial Intelligence

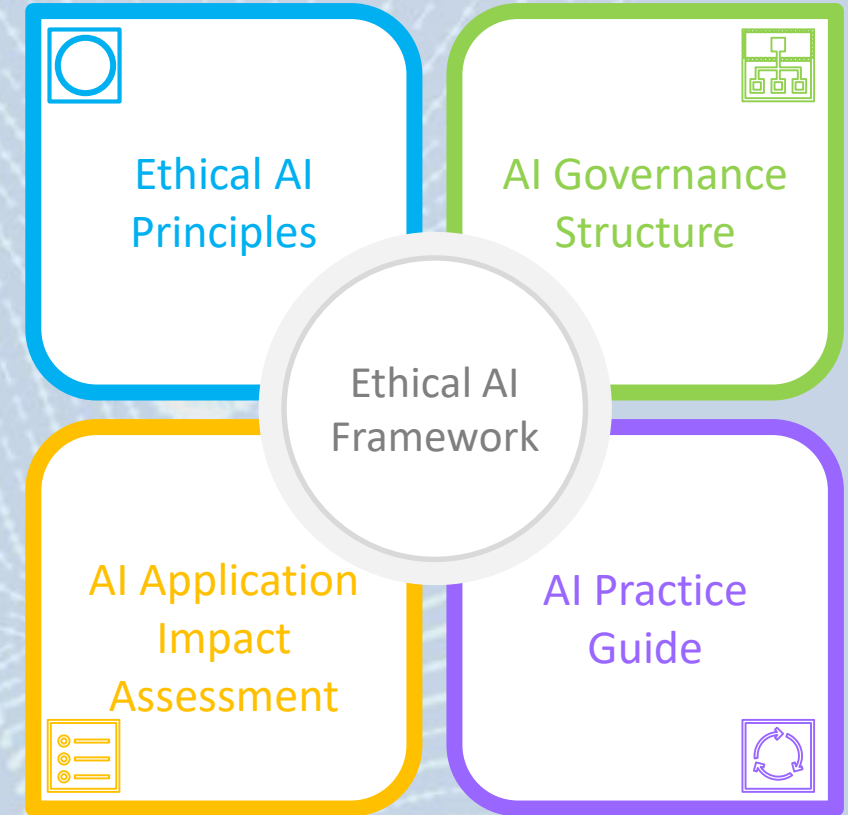
- Published in Aug 2021
- To facilitate the healthy development and use of AI in Hong Kong and assist organisations in complying with Personal Data (Privacy) Ordinance in their development and use of AI
- Three Data Stewardship Values
- Seven Ethical Principles for AI



# Office of the Government Chief Information Officer's Ethical AI Framework

Government internal guidelines in adopting AI & big data analytics and incorporating ethical elements in the **planning, design and implementation of IT projects or services**

- Developed in consultation with PCPD and complied with PCPD's Guidance on the Ethical Development and Use of Artificial Intelligence
- Promulgated in Aug 2021 for B/Ds' reference
- Potential areas of concerns and suggested tips in relation to generative AI being incorporated for B/Ds' consideration



# Existing Legislation and Laws

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- Under the existing legislation in Hong Kong, most of the laws enacted to prevent crimes in the real world are in principle applicable to the online world.
- Various provisions in place under the existing legal framework to deal with the dissemination of untrue or inappropriate information
  - e.g. the Crime (Amendment) Bill 2021 introduced the offences of publication or threatened publication of intimate images without consent.



