

ARTIFICIAL INTELLIGENCE TECHNOLOGIES



人工智能发展现状及其产业应用





Artificial Intelligence – 4 Rises in the History

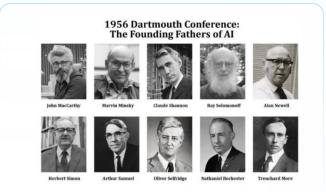
Artificial Intelligence: An artificial program or system that can perceive, recognise, make decisions, and execute tasks just like human beings.

人工智能: 能够和人一样进行感知、认知、决策、执行的人工程序或系统

2022 ChatGPT

智慧涌现





The concept of Artificial Intelligence (AI) was formed during the Dartmouth Conference in 1956, USA. 1956年美国达特茅斯会议 "人工智能" 概念诞生

2022 第四次浪潮

The 3rd Rise 2006 第三次浪潮

> GPT. Bert 开启NLP的预训练新范式

The 4th Rise

Al for Science 形成热潮

Transformer 在自然语言处理获得成功

Attention 在机器翻译上获得成功

CNN 在图像识别上的成功

DNN 在语音识别上的成功 Deep Learning(Hinton 2006)

2019 SQuAD 2.0

Surpass human players in reading comprehension ability 阅读理解超过人类

1990

第五代计算机失败,

DARPA削减投入

AlphaGo

2016 AlphaGo

Surpass human players in the game of Go. 下围棋胜过人类

The 1st Rise

Logic Theorist 第一款人工智能软件

First Cooling Period 第一次AI冬天

The 2nd Rise 第二次黄金期

Second Cooling Period 第二次AI冬天





Artificial Intelligence – 3 Development Stages



Computational Intelligence 运算智能

Ability to compute and store the data



Preceptive Intelligence 感知智能

Ability to listen, speak, look, and recognise



Cognitive Intelligence 认知智能

Ability to understand, think, and with its own intelligence.





Artificial Intelligence – Cognitive Intelligence

Large Language Models present completely new opportunities for addressing fundamental human needs

The Seven Key Dimensions of Al

Text Generation Language Understanding

Knowledge Q&A

Logical Reasoning

Mathematical Ability

Coding Ability

Multi-Model Ability

Transforming Information Distribution & Access



Enabling Expert-Level
Virtual Assistants



Revolutionizing Content Creation



Disrupting Traditional Hand-Coding Methods



Accomplishing Tasks Through Natural Interaction



Serving as an Accelerator for Scientific Research



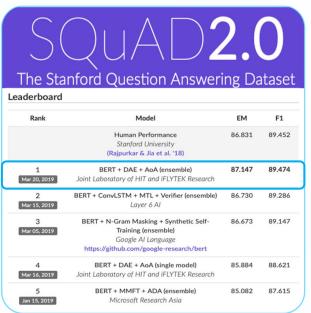
Its emergence is considered a milestone "no less significant than the birth of the PC and the Internet"





Artificial Intelligence – Cognitive Intelligence

In 2019, natural language understanding technology won first place in the internationally authoritative SQuAD competition.



Milestone Knowledge Reasoning

MilestoneNatural Language Understanding

Event Organiser: Stanford University

In 2022, knowledge reasoning technology won first place in scientific knowledge reasoning at the OpenBookQA competition.



Event Organiser: Allen Institute for Artificial Intelligence





Artificial Intelligence in Academic Research

Cooperation with the Chinese Academy of Sciences

For A Large Language Model For Scientific Literature To Enable An Efficient Academic Research

与中科院合作开发科学文献大语言模型,提高学术研究效率



IFLYTEK WAY





- Base capability: SPARK large model
- Key technologies: pre-training, supervised fine-tuning, reinforcement learning

- CAS internal data sources: institute journals, dissertations, preprints
- Collaborative data resources: renowned domestic and international databases

Currently serves 1,363 universities and nearly 40,000 researchers

现已为1,363所院校、超过40,000名研究者提供服务





Cooperation With China's Official Authorities

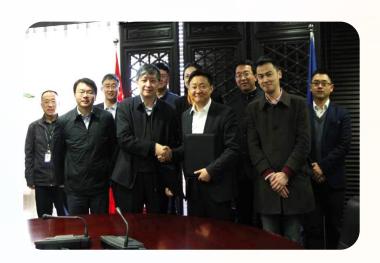
The Smart Education Platform Promotes The Widespread Application Of Digital Resources In Less Developed Regions



Jointly build the Innovation Centre for Quality

Monitoring of Basic Education with China Ministry of

Education



Launched a joint laboratory with **China Ministry of Education's Examination Authority**



Strategic partnership with the **China Central Institute for Educational Technology** to develop innovative education models





Cooperation With China's Academy of Education Sciences

Addressing the shortage of professional teachers in subjects such as language, information technology, and science across regions, urban and rural areas, and between schools.

Al Science Teacher Science Knowledge Q&A Al English Teacher
One-on-One Oral Communication

Al Art Teacher
Creative Painting Inspiration

Al Mental Companion Virtual Psychologist







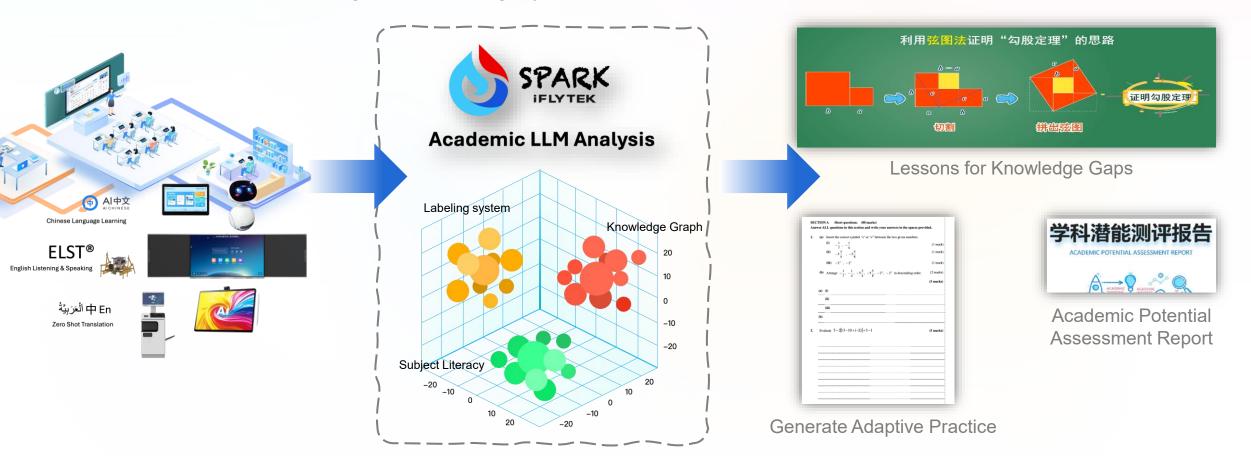






Personalised Learning Approach

Building Technology Roadmap for Large-Scale Personalised Education, Systematically Constructing a Student-Centred, Innovative Teaching and Learning System







iFLYTEK SPARK Smartboard

Learn with AI, Grow with you

讯飞星火智慧黑板 - AI作伴, 携手成长



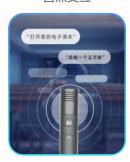
Multi-modal **Understanding**

多模态理解



Natural Interaction

自然交互



Magic Search

智慧圈选







Smart Recording And Sharing

智能录课



Course Development

Tools for Teachers, Resource Reorganisation, and Digital Course Support













Technologies for Language learning

Widely Recognised by Global Language Learners

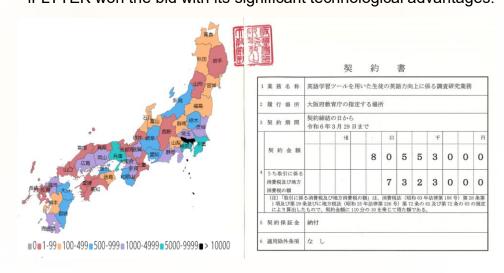
Chinese Language Learning Platform

Covering 192 countries with over 180 Million users registered



Global English Teaching

In preparation for the World Expo, Osaka launched a global tender for the introduction of artificial intelligence English teaching in public schools. iFLYTEK won the bid with its significant technological advantages.







Artificial Intelligence in Consumer Products

Al Assistant for Everyone

Enhancing workforce productivity



Smart Translator 翻译机



Smart Recorder Pro 录音笔 (专业版)



Smart Recorder 录音笔



Smart Dictionary Pen 词典笔



Al Note Air 2 办公本



Al Transbuds 翻译耳机

- Face-to-Face Translation
- 60 Languages
- 98% Accuracy
- Camera Translation
- Offline Translation
- Free Global Traffic

- Online Transcription
- Long-Distance Recording
- Noise Reduction
- 8 Languages
- Video Shooting
 - Large Touch Screen

- Offline Transcription
- Long-Distance Recording
 - Noise Reduction
 - 5 Languages
- Data Security
 - Touch Screen

- Scan and Look up Words
- Multilingual Translation
- Unlimited Books
- Phonics
- Offline Use
 - Voice Translation

- Al Empowerment
- Recording&Transcription
- Voice-to-Text
- Paper-like Writing
- Handwriting to Text
 - Schedule Management

- Simultaneous Interpretation
- Al Empowerment
- All Scenarios Translation
- Noise Reduction
- Audio Quality Enhancement
- Expert-Level Accuracy





Artificial Intelligence in Healthcare

Al Medical Assistant

A system to analyse patients' clinical presentations and medical information using a knowledge base and Al diagnostic engine



Key Performance

- Deployed across 600+ regions in 30 provinces of China
- 820 million assisted diagnoses
- 1.48 million diagnostic corrections aided
- 73.73 million irrational prescriptions flagged

Data by Jul 15th 2024





Artificial Intelligence in Finance

Corporate Solutions for Financial Sector

iFLYTEK has served 200 financial institutions, delivered over 2,000 projects, and indirectly served 500 million users









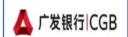














































































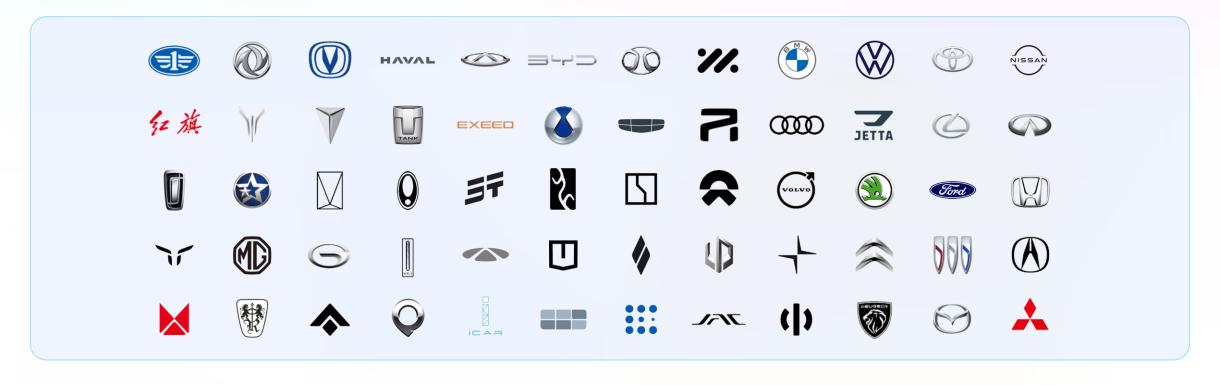






Artificial Intelligence in Vehicle

Intelligent Voice Interaction Contributes To the Vehicle Industry



1 st
China's automotive

voice interaction market

57 Million

Deployed in vehicles

10 Billion

Annual Interactions





Responsibility with Al

社会责任

In partnership with the China Disabled Persons' Federation, iFLYTEK has launched the Hearing Al Voice initiative. This program offers lifelong free speech-to-text services through DeepTing App. To date, more than 100 million minutes of barrier-free communication have been made available to the hearing-impaired community, promoting digital inclusion.

科大讯飞与中国残疾人联合会合作,启动"听见AI的声音"项目。该项目通过"讯飞听见"提供终身免费的语音转文字服务。 迄今为止,为听障群体提供了超过1亿分钟的无障碍交流,促进了社会包容性。











Responsibility with Al

社会责任

20 Provinces | 省份

1,000+ Schools | 学校

In 2017, we launched the Al Welfare Program, reaching over 1,000 schools in 20 provinces, including Xinjiang Uyghur Autonomous Region, Xizang Autonomous Region, Guangxi Zhuang Autonomous Region, etc. 2017年,我们启动了人工智能教育公益项目,覆盖新疆维吾尔自治区、西藏自治区、广西壮族自治区等20个省的1000多所学校。

Our goal is to plant three seeds in children's hearts:

我们的目标是在孩子们的心中播下三颗种子:

1. The seed of technology, sharing the vision that technology can bring a better life | 相信科技带来美好生活

- 2. The seed of striving, understanding that knowledge can change their destiny | 知识可以改变自己的命运
- 3. The seed of happiness, ensuring they study and grow joyfully | 快乐地学习和成长





AI点燃每个生命的独特光芒

Al Illuminates the Unique Spark Within Every Human

助力培养站在人工智能翅膀上的新人类

Empowering a New Humanity: Soaring on the Wings of Al