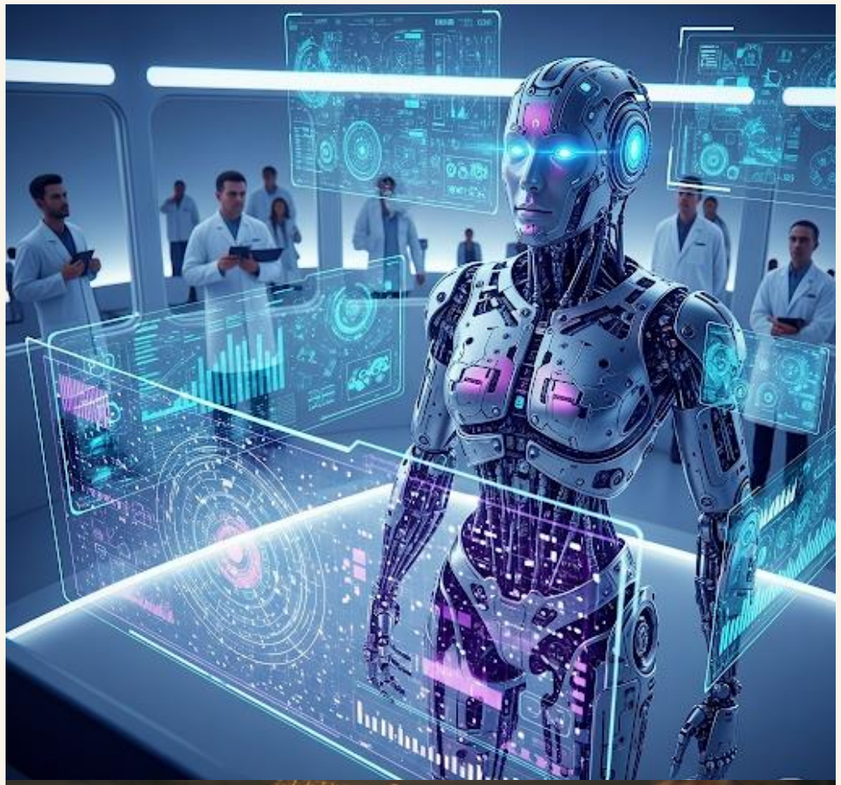
AI Now & Next: The Past, The Practical, and The Path Forward

Past insights. Present tools. Future impact

Future…

Video: https://www.youtube.com/watch?v=aTKozZjg5gc



Agenda

1. *AI Historical Overview*
2. *Industry Transformation*
3. *Empowering Tools*
4. *Future Trends*
5. *Maximizing Your Value*

01

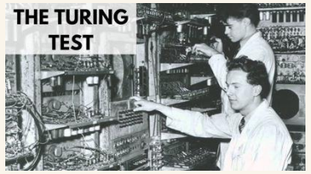
AI Historical Overview

Why do we study history?

AI's Journey: From Dream to Generation

1950
Turing Test

Alan Turing asks, *“Can machines think?”*, laying the philosophical foundation of AI.



1956
Dartmouth Conference

The term *Artificial Intelligence* is coined. AI becomes a formal academic field

1980s
Expert Systems

Rule-based AI systems are widely used in medicine and business, but struggle with scalability and maintenance.

1997
Deep Blue defeats Kasparov

IBM’s chess AI beats the world champion, capturing global attention.

2012
Deep Learning Breakthrough

AlexNet wins the ImageNet competition using GPU-powered CNNs. AI’s vision capability leaps forward.

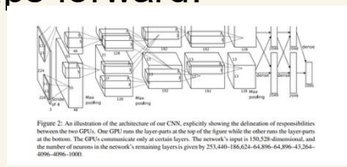


Figure 2: An illustration of the architecture of our CNN, explicitly showing the delineation of responsibilities between the two GPUs. One GPU runs the layer-parts at the top of the figure while the other runs the layer-parts at the bottom. The GPUs communicate only at certain layers. The network’s input is 150,528-dimensional, and the number of neurons in the network’s remaining layers is given by 253,440–186,624–64,896–64,896–43,264–4096–4096–1000.

2017
Transformer Architecture Introduced (🔥)

Google’s paper *“Attention is All You Need”* introduces Transformers — a turning point that enables large-scale language models like GPT and BERT.

2020s
The Generative AI Boom

Tools like GPT-3, ChatGPT, DALL·E, and Stable Diffusion bring AI from recognition to content *creation*.

02

Industry Transformation

AI Reshaping Every Sector

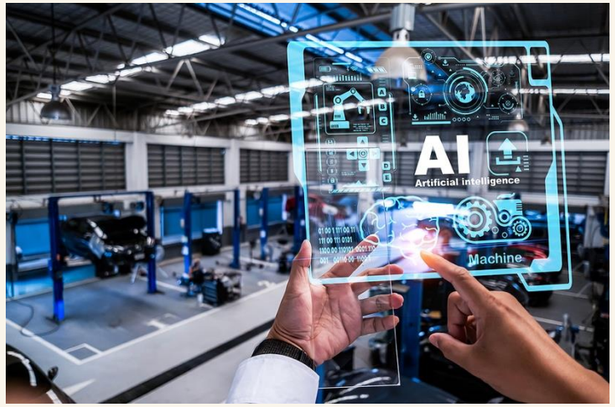
AI in Manufacturing

Bullet Points & 💡 Actual Cases

Predictive Maintenance

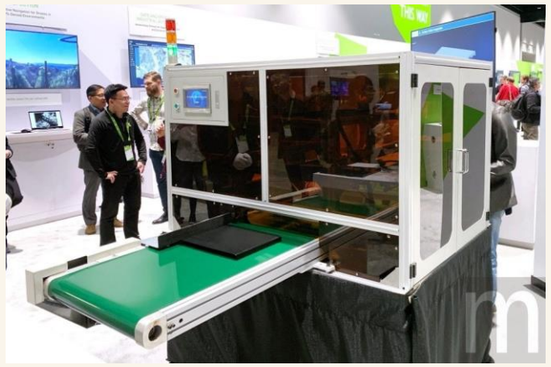
Siemens

successfully reducing unexpected downtime by 20%



AI-based Quality Control

Foxconn



Utilizes computer vision technology, cutting labor costs and improving accuracy

Smart Scheduling & Optimization

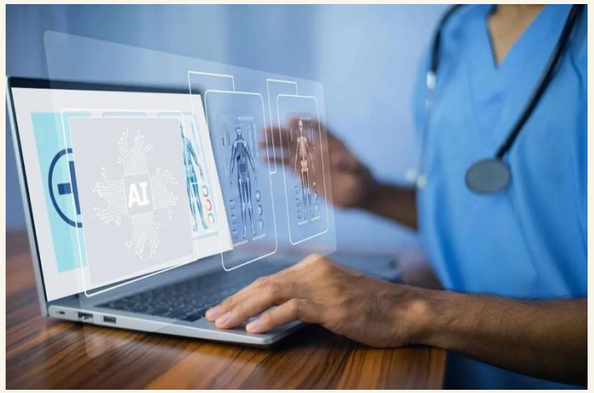
Nissan

predict supply chain risks and auto-adjust production schedules for unexpected events

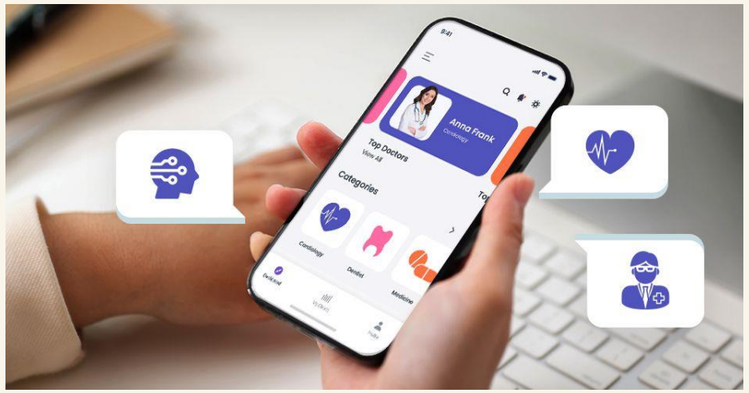
AI in Healthcare

Bullet Points & 💡 Actual Cases

Medical Imaging & Diagnostics

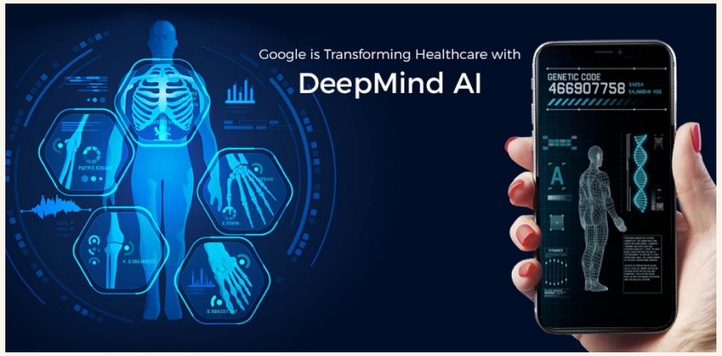


Personalized Treatment Plans



AI Health Assistants

Google DeepMind

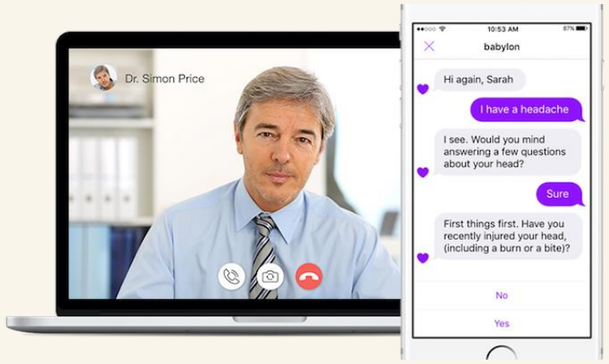


AI models for early breast cancer diagnosis, outperforming human radiologists.

Taiwan Veterans General Hospital

Uses AI to analyze lung X-rays for suspected COVID-19 case interpretation

Babylon Health (UK)

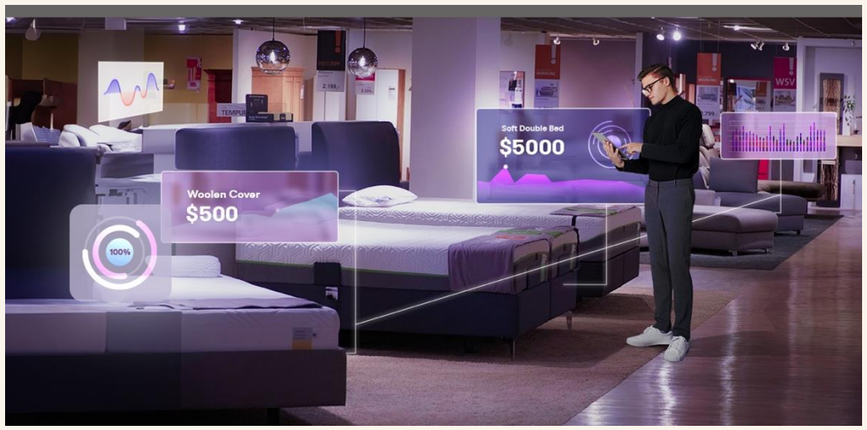


Uses AI to provide basic diagnoses and guidance, reducing system strain

AI in Retail

Bullet Points & 💡 Actual Cases

Customer Behavior Prediction



Dynamic Pricing

Personalized Recommendations

Amazon

Its personalized recommendation system drives 35% of its sales

Uniqlo

analyze facial expressions for interactive recommendations and virtual try-ons.

Carrefour

Uses AI to optimize product placement and sales via hot zone and customer flow analysis

AI in Content Creation

Bullet Points & 💡 Actual Cases

AI Copywriting

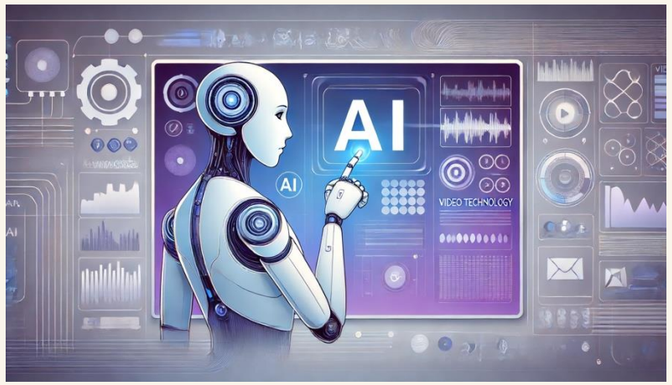
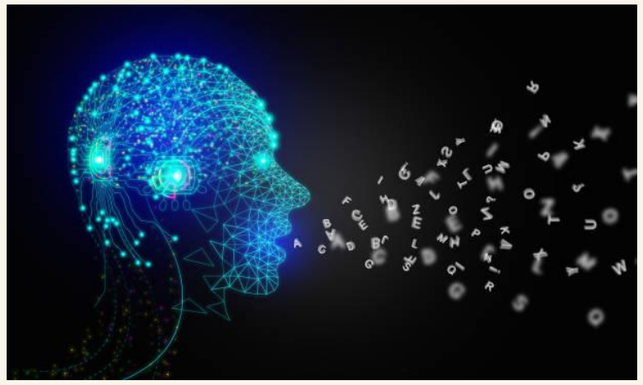
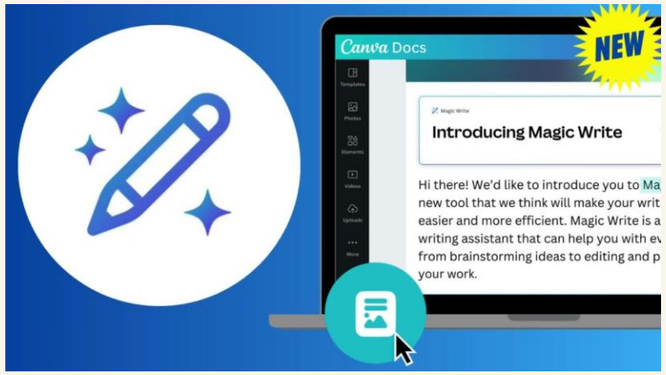


Image & Video Generation



Voice Synthesis & Translation

Canva Magic Write

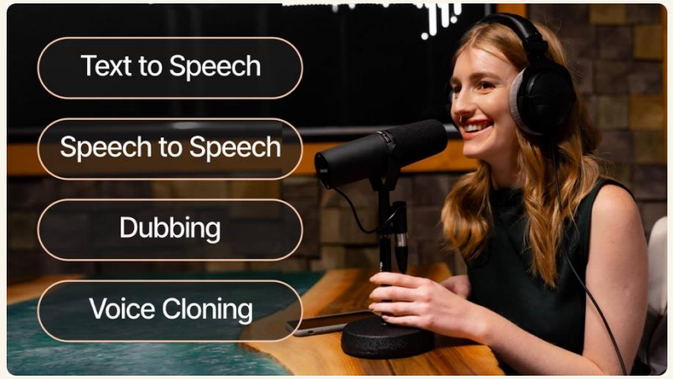


Uses OpenAI to create presentation and social media content

Runway

Enables text-to-video creation, simplifying video production

ElevenLabs



Offers multi-language voice synthesis with emotional depth and real-time voice generation

03

Empowering Tools

AI Tools Are Blooming — Entering an Era of Explosive Growth

AI Tools Are Blooming

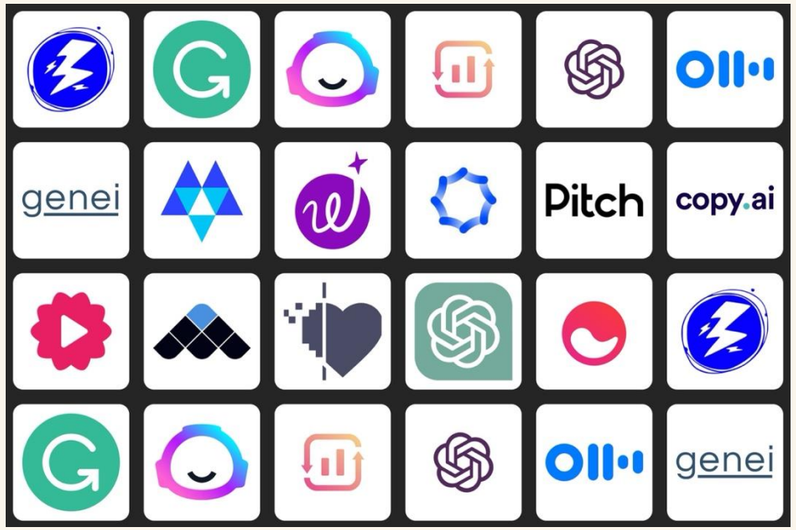
Entering an Era of Explosive Growth

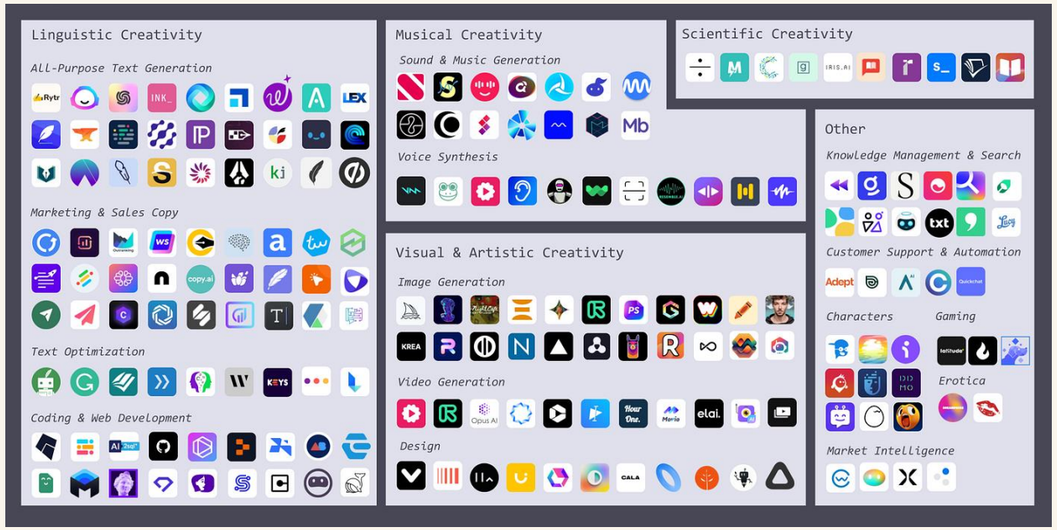
2023 ~

New Tools are Launched Every Week

AI tool selection anxiety

How do we choose the right tools?
Which tools actually boost productivity and creativity?
Which are truly worth integrating into our daily workflows?





Choose Your AI Superpower

Common Tools & Application Domains

Generative AI / Chat Assistants

Gemini
Claude
Grok

AI Search & Information Retrieval

perplexity
Gemini
iAsk

Productivity & AI Assistants

Chat Hub
Fireflies

AI Language Learning

Speak

AI Knowledge Base & Note-Taking

NotebookLM
Chat pdf

Presentation & Content Creation

tome
Canva
beautiful.ai

Automation & Development Tools

n8n

NotebookLM

Your AI-Powered Note & Knowledge Assistant

Turn your notes into a searchable personal knowledge base

what is NotebookLM?

It’s your personal AI research and writing assistant, built to deeply understand your own content.

Here’s what it can do

But that’s not all

- Combine notes, PDFs, links, and documents into a smart knowledge base
- Let you ask questions and get instant, context-aware answers
- Summarize complex content and highlight key points
- Even draft new ideas or writing based on your data

Why does this matter?

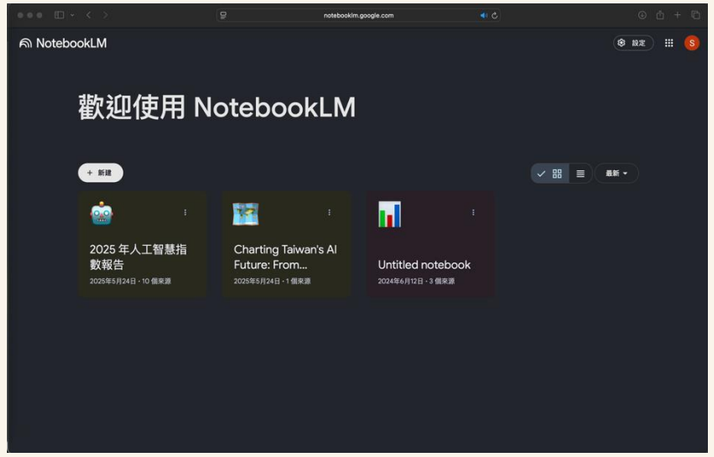
It saves time, boosts your thinking, and helps you focus on creating — not digging through data.

Step1 - Add Resource

Turn your notes into a searchable personal knowledge base

https://notebooklm.google.com

You have Resource



You don’t have Resource

specific files, websites, YouTube URLs, texts, etc.

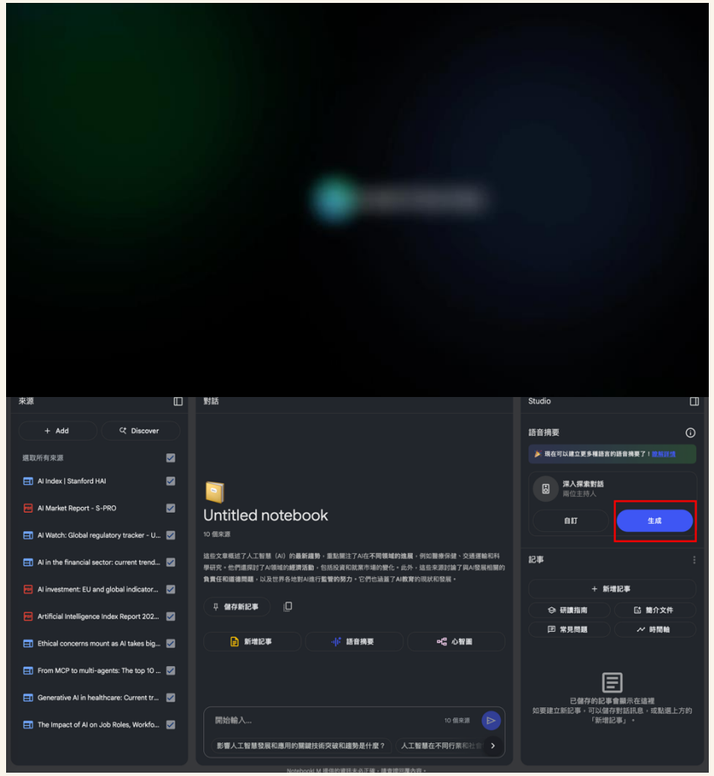
Let AI Helps

Step2 - Various Features

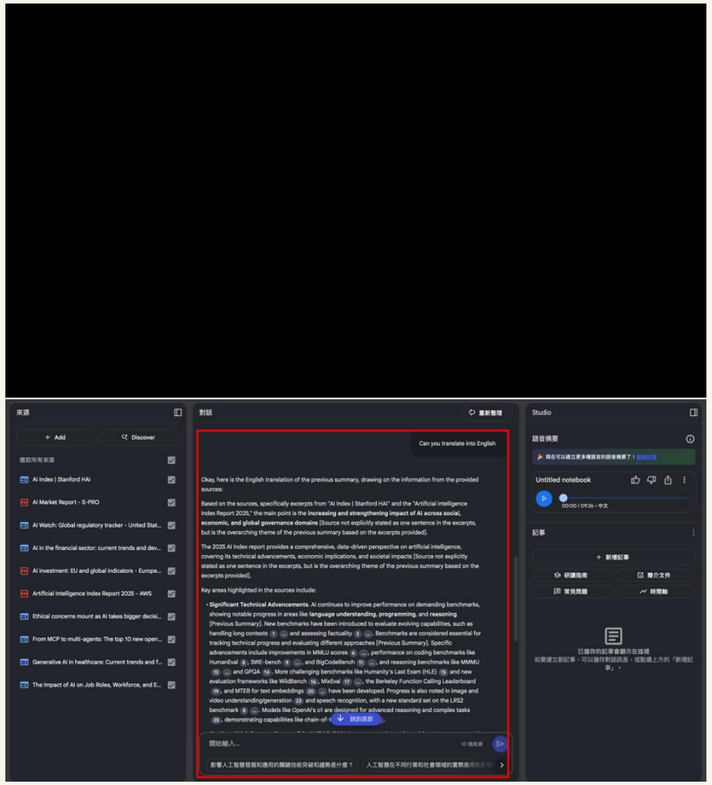
Turn your notes into a searchable personal knowledge base

https://notebooklm.google.com

Audio Overview



More than just answers, it includes sources



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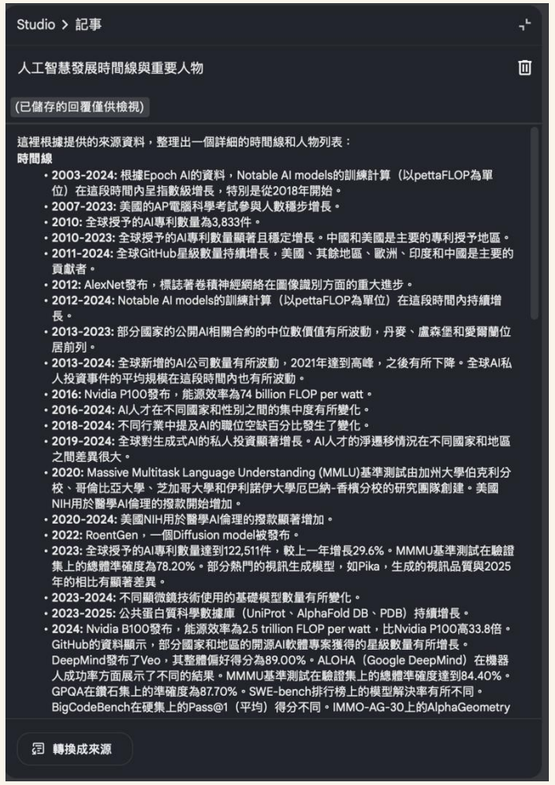


Mindmap

Monica: All-in-One AI Assistant

Multi-Model Integration

Integrates top-tier AI models such as GPT-4.1, Claude 4, and Gemini 2.5. Delivers the most powerful conversational experience

Browser Extension

The Chrome extension keeps AI at your fingertips. Provides instant assistance across webpages for your work.

All-in-One Features

Equipped with chat, drawing, writing, and translation capabilities. Offers smart data organization and schedule management.

https://monica.im/zh_TW/learning-center

Perplexity
AI Search Engine Revolution

Intelligent Q&A

An AI-powered search and question-answering platform

Real-Time Information

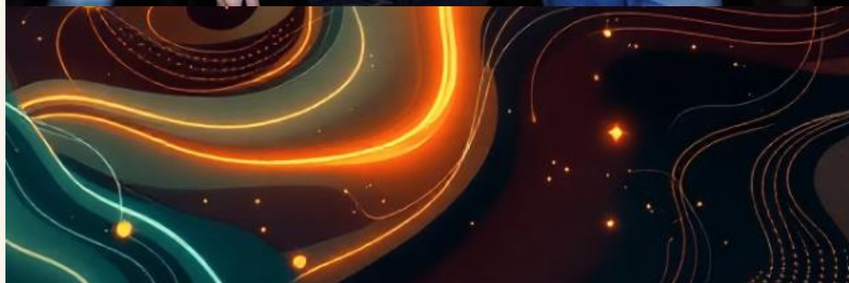
Accesses the latest web information and generates source references

Multilingual Support

Supports queries in multiple languages across professional fields

Precise Answers

A clean interface focused on accuracy



https://www.perplexity.ai

Gamma: Interactive Presentation Design AI

AI Auto-Generation

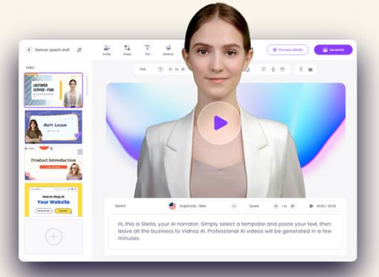
Instantly creates professional PPTs, proposals, and reports. Automatically enhances layouts, saving time and effort

Collaborative Presentation

Supports real-time team collaboration. Online presentation features make sharing more convenien

Rich Resources

Offers a wide range of theme templates and a high-quality image library. Meets diverse design needs



Vidnoz: AI Video Generation & Virtual Avatars

Automated Video Creation

AI technology quickly generates professional video content. Digital avatar

Intelligent Voiceover

Built-in AI voiceover feature with perfect lip-sync. Multiple voice options to meet various needs

Marketing Applications

Ideal for creating marketing clips and training materials. Supports multilingual output to reach a broader audience

xf

Vurbo.ai: Intelligent Speech Transcription Platform

Speech Transcription

Instantly converts speech to multilingual transcripts with high accuracy, supporting diverse scenarios

Real-Time Translation

Supports real-time multilingual conversion, enhancing global communication

Smart Organization

Simple transcript display, sharing, and organization with robust search and review features

xf

Leading AI Models: A Quick Comparison

Model	Developer	Strengths/Key Features	Primary Applications
ChatGPT	OpenAI	Powerful general conversation, writing abilities, vast knowledge base	General Q&A, content creation, coding assistance, daily conversation
Gemini	Google	Native multimodal understanding & generation (text/image/audio/video), high efficiency	Cross-modal tasks, complex reasoning, data analysis
Claude	Anthropic	Emphasis on safety & ethics, long-context processing, logical reasoning, reduces harmful output	Enterprise applications, long-text analysis, responsible AI
DeepSeek	DeepSeek AI	Open-source model, excels in specific domains (e.g., code generation), active community	Developer tools, code generation, academic research
Grok	xAI	Real-time, humorous, rebellious style, deep integration with X platform	Real-time information, social interaction, entertainment content

04

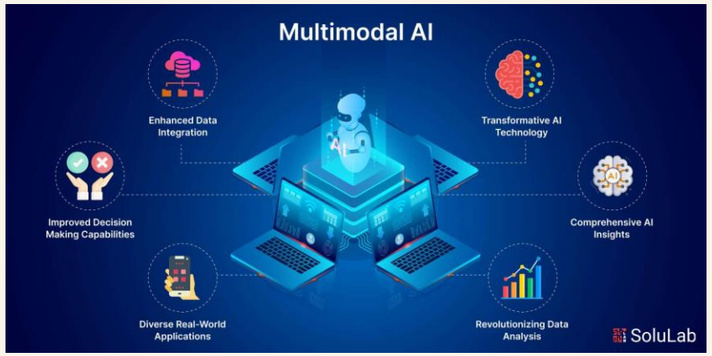
Future Trends

Envisioning AI's New Era, Mastering the Intelligent Future

Future Trends
Navigating the AI Frontier

Deeper Integration & Ubiquity

Rise of Multimodal AI



Evolution of Personalized AI

AI Ethics & Governance

Edge AI & Miniaturization

05

Maximize Your Value

Human-AI Collaboration: Unleash Your Infinite Potential

Maximize Your Value: Thriving in the AI Era

Master AI Tools

Become proficient in AI applications, treating them as productivity partners for individuals and teams

Enhance Unique Human Skills

Cultivate critical thinking, creativity, emotional intelligence, communication, and complex problem-solving abilities

Lifelong Learning & Adaptability

Embrace rapid change by continuously learning new knowledge and skills

Focus on Human-AI Collaboration

Understand AI's strengths and limitations, leverage human advantages, and achieve 1+1>2

Develop Strategic AI Thinking

Consider how AI can create new value and opportunities in your field

Thank You & Key Takeaways

- **AI Tool Empowerment:** Master tools like NotebookLM, Monica, Perplexity, Gamma, Vidnoz, and Vurbo.ai to boost efficiency and capabilities.
- **Future Trend Insights:** AI deeper integration, multimodality, personalization, ethical governance, and edge computing.
- **Value Maximization Strategies:** Learn tools, enhance human skills, embrace lifelong learning, focus on human-AI collaboration, and develop strategic thinking.