Consulting

SI A

Prof. Joe O'Mahoney THE CONSULTANT'S CONSULTANT

But	Special Reports > Exclusives AI Beat Clinicians at Figuring — GPT-4 may help with diagnoses that have been no by Michael DePeau-Wilson, Enterprise & Investigative Writer, MedPage Today August 14, 2023	e
GPT-4 outsmarts Wo than human analyst	providing GPT-4 with standardised financial statements, carefully stripped	ONIVERSITY OF CAMBRIDGE Study at Cambridge About the University Research at Cambridge Quick links / Research / News / Artificial intelligence beats doctors in accurately assessing eye problems Quick links Research / News / Artificial intelligence beats doctors in accurately assessing eye problems Research home News Our people Spotlights Business and enterprise Our impact Artificial intelligence beats doctors in accurately assessing eye problems
RESEARCH CAREERS	FORBES > INNOVATION > CONSUMER TECH GPT-4 Beats 90% (Trying To Pass The John Koetsier Senior Contributor ©	
Al beats doctors at heart disease death		Home > Exclusive > Artificial Intelligence ChatGPT-4 outperforms human psychologists in test of social intelligence, study finds by Eric W. Dolan — April 19, 2024 in Artificial Intelligence

1. What is AI?

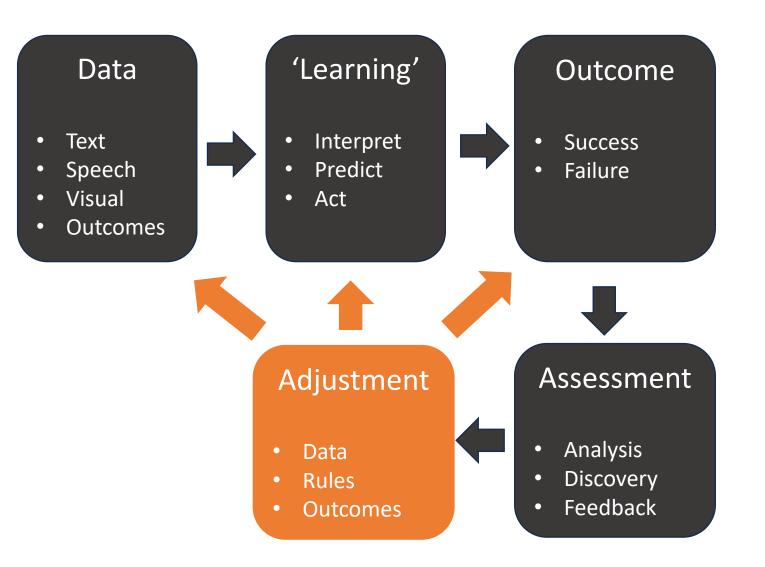


- 1. LLM (like ChatGPT): read & generate accurate human-like text. LLMs for improved customer support.
- Expert Systems which mimic human decision-making using rules & heuristics.
 Diagnosing cancer from scans.
- 3. Machine Learning learns from data to make decisions or predictions. American Express to analyse transactions in real-time preventing fraud.
- 4. Deep Learning uses artificial neural networks to learn from large, complex datasets. Netflix algorithms for personalized content recommendations.
- Computer Vision recognises and 'understands' visual data.
 Amazon Go tracks customer-selected items and charge accounts automatically.
- 6. Natural Language Processing to interpret and analyse text.
 Expedia uses NLP to analyze customer reviews, gaining insights into service improvements.

Types of AI



Al architecture



2. What can Al do?





Suggest fun activities

for a family of 4 to do indoors on a rainy day

Show me a code snippet

of a website's sticky header

Recommend a dish

to impress a date who's a picky eater

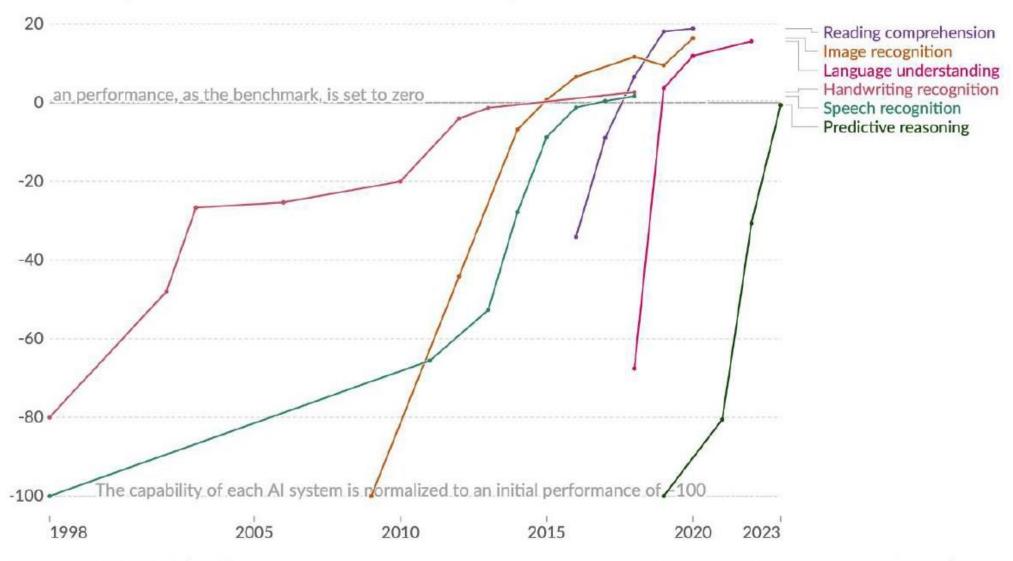
Explain this code: "cat config.yaml | awk NF"

Send a message

⊳

Test scores of AI systems on various capabilities relative to human performance

Within each domain, the initial performance of the AI is set to -100. Human performance is used as a baseline, set to zero. When the AI's performance crosses the zero line, it scored more points than humans.



Data source: Kiela et al. (2023)

OurWorldInData.org/artificial-intelligence | CC BY

Our Work in Data





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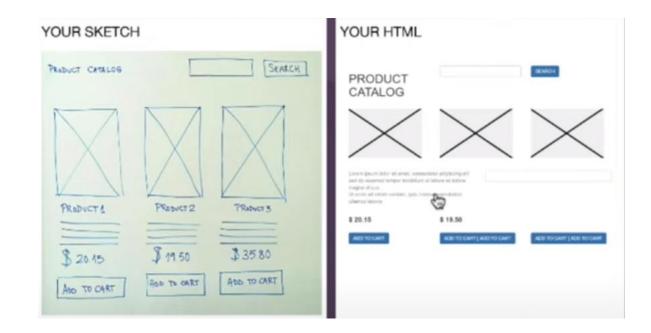




Al codes.

From pictures

YOUR SKETCH	YOUR HTML
PAYMENT INFO	PAVIMENT INFO Cardholder Name
Cardholder Name	Card Number
Card Number	Expiry Date Cvv
Expiry Date CVV	
BACK NEXT STEP	





What if you had perfect memory?





2. What can Al do for business?



Insights from research

- Al is more accurate than doctors
- Al is 9x more empathetic than doctors
- AI beat 99% of students for creativity
- AI makes stories more novel & interesting
- Al created 88% of top business ideas
- Management consultants using AI
 - Finished 12% more tasks
 - $_{\odot}$ Completed tasks 25% faster
 - Produced 40% higher quality



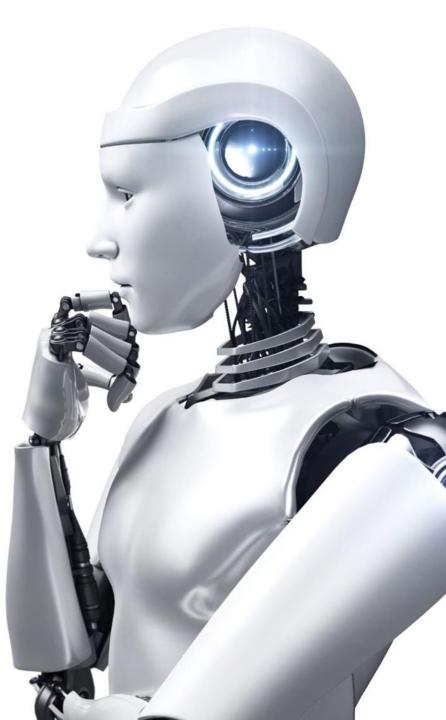
Low hanging fruit

- Conversational assets
 - o Call analysis & feedback
 - o Chatbot support
 - o Trend detection (e.g. complaints; feedback; employees)
 - o Compliance
- Content creation
 - o Idea generation
 - o Content checking (e.g. consistent voice)
 - o Content creation
 - o Content reuse (audio \rightarrow image \rightarrow text \rightarrow video)



Medium Effort

- AI 3rd party plug-ins & apps
 - Assess the personality of this email recipient and guide me writing an email.
 - o Create a blog from a presentation I'm giving on AI.
- Build chatbots for your services
 - o Allow customers to ask natural questions
 - o Allow employees to find information faster
 - o Create a virtual project manager to update clients



High **Effort**

• Create your own LLM

o Training

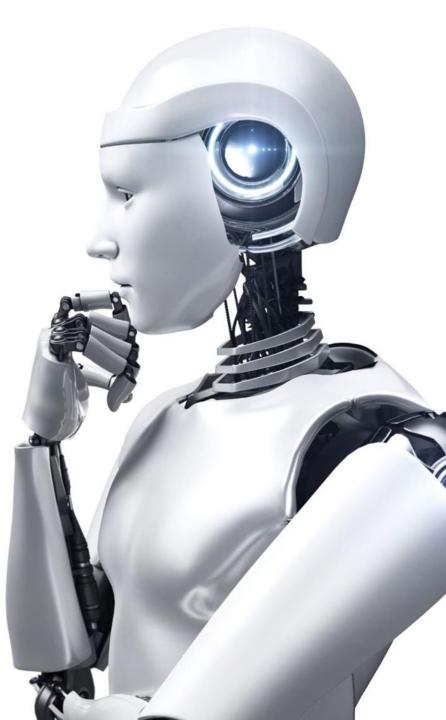
o Off-line AI trained on your own content

o Secure, confidential

• Bespoke AI Software

o Agents

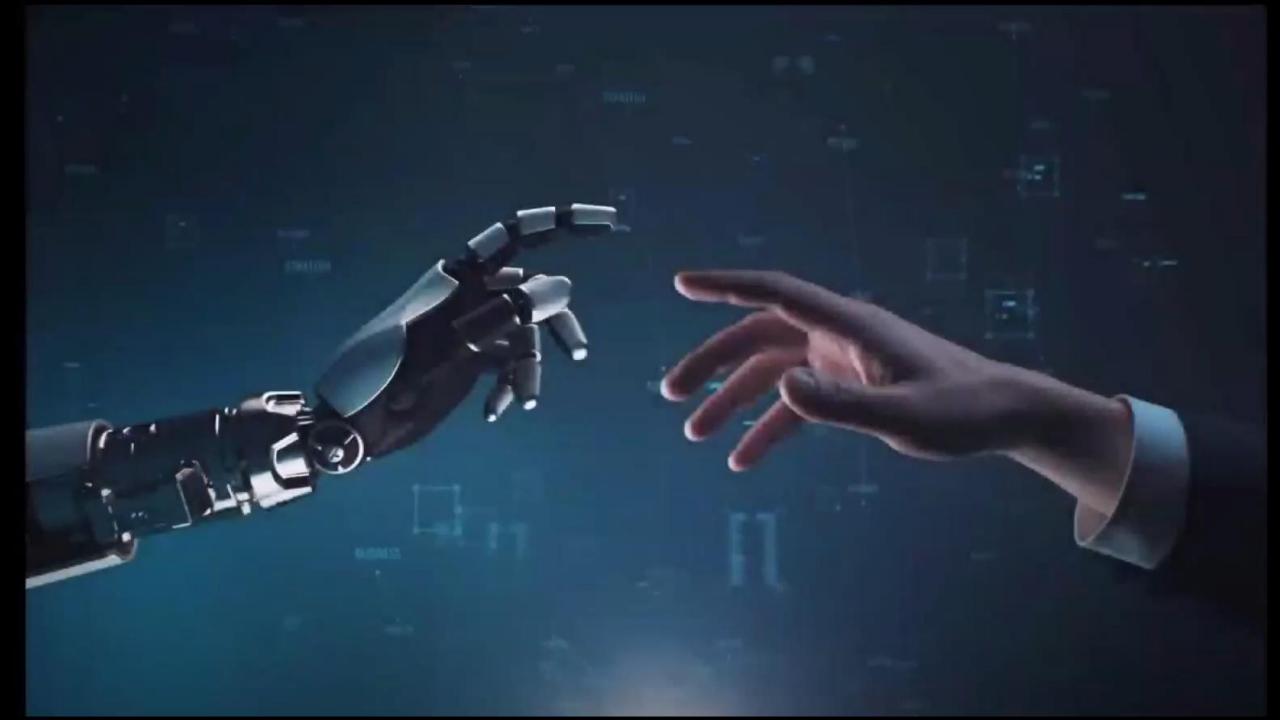
o SaaS / Cloud

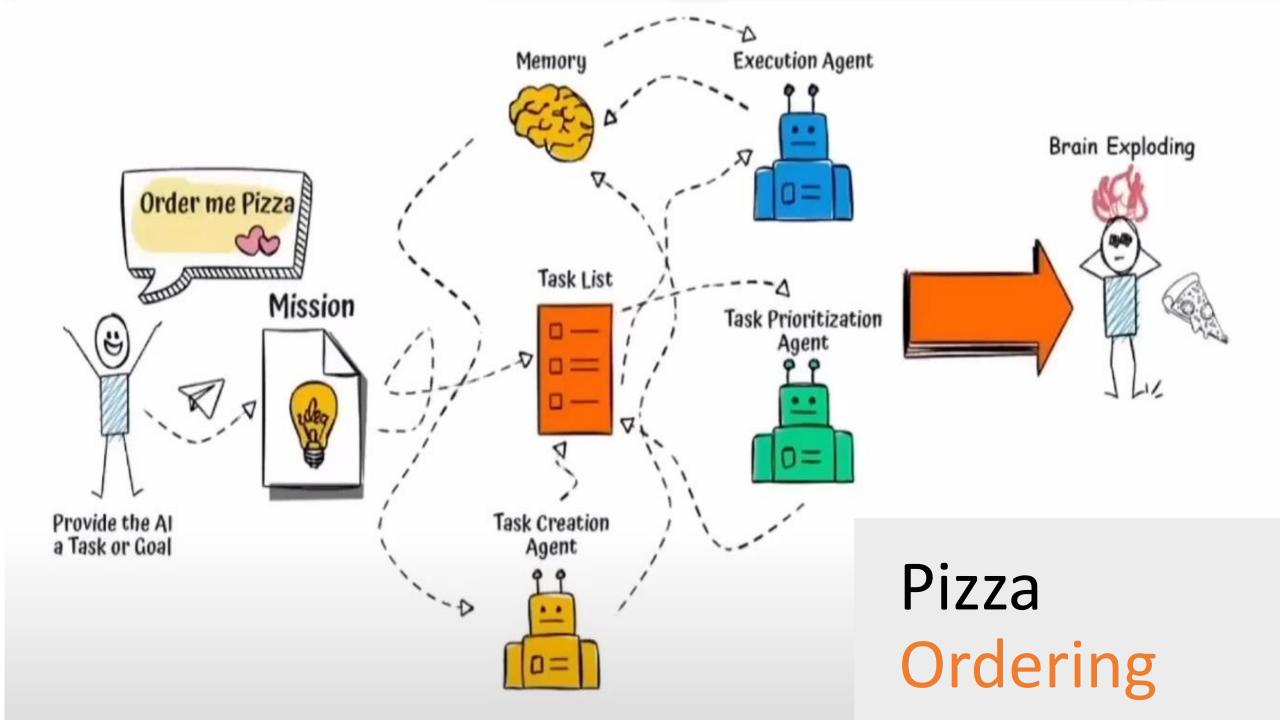


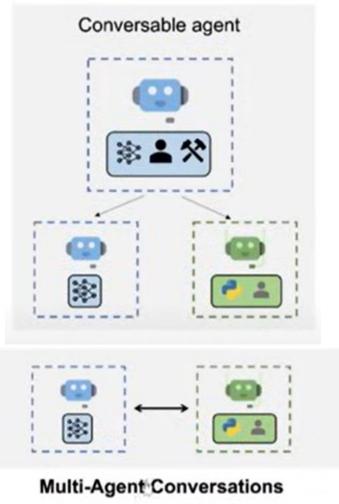


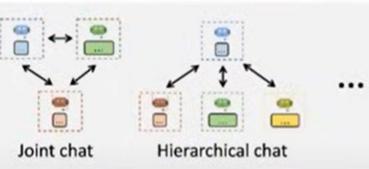
Al Agents

- Role-playing agents in group chat
- Text, voice, image, browser, PC, email etc.
- Pursue goals
- Completes tasks
- Interacts with environment (incl. agents)
- Memory
- No-code









Flexible Conversation Patterns

Agent use cases

- Build a website to track small UK planes
 - Product manager, Business analyst, Systems analyst, Coder, Tester, Project manager;

• Write a novel about the awakening of AI

 Researcher; Story Planner; Character Developer; Writer; Editor; Project Manager;

• **Trade** £5k to make me rich from ethical stocks

 Bank user; stock analyst; trader; project manager; communications agent; ethics agent;

https://www.cassidyai.com/

4. An example



Management Consulting

- Accenture: investing \$3 billion & employing an additional 80,000 AI employees.
- **KPMG** is buying \$2 billion worth MS Cloud and AI services by 2028
- **PwC** is investing \$1bn in a "3-year AI roadmap," training 65,000 employees.
- McKinsey & Co. trained its own AI (\$100m)



Consultants, do you use AI ?

Yes		
No		

67%

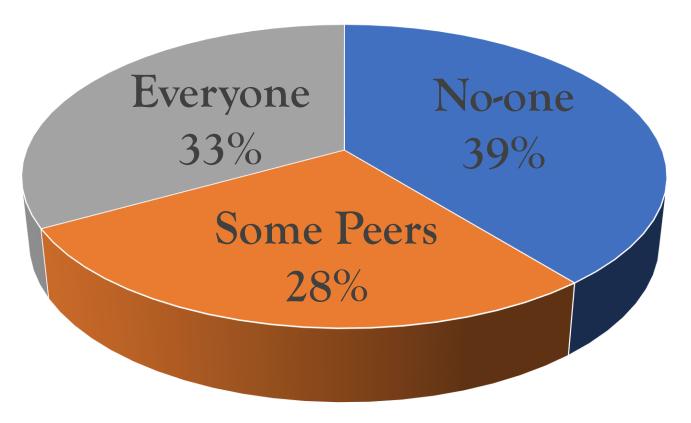
33%

What do you use AI for?

67 To save my own time in producing roughly the same deliverables

- **15** To increase quality of my delivery to clients or internal stakeholders
- 2 To develop new services / products
- 22 Other (specify below)

Who **knows** you're using Al in your consulting job?



Only 32% of partner time is spent selling

Business Development Use Cases for PSFs *Faster, better, cheaper.*

• Identification of leads

- Buying triggers (LI Sales Navigator)
- Buying behaviour (Qlick)
- Customer segmentation (Peak.ai)
- Prioritisation (Signum.ai)

Content Creation

- Content gathering (CrystalReads)
- Content ideas / targeting (GPT4)
- Content creation / completion (GPT4)
- Content repurposing (Veed.io)
- SEO optimisation (SEO.ai)

Outreach

- o CRM insights (Creatio)
- Automation (MeetAlfred)
- Content (re)creation (Munch)
- Content personalisation (BHuman)



• Calls

- Simulated training (Alelo)
- Personality of buyer (crystalknows)
- Performance analysis (nice.com)
- CRM updates (https://www.getpilot.ai/)

Meetings

- Meeting booking (Calendly)
- Note-taking & actions (Firefly)
- Slide generation (MagicSlides)
- Analysis & feedback (Revenue.io)

Negotiation

- Pricing optimisation (PriceFX)
- Negotiation training (humantic.ai)
- Contract creation, review & management (GPT4)

- My prospects have **pre-identified**.
- My prospects have been **converted to leads**.
- My leads have been **prioritised**.
- My first lead of the day is **analysed**:
 - 0 personality
 - o history
 - o socioeconomic indicators
- My script is **pre-populated**
- I make the call
- The call is recorded, transcribed & highlights entered the CRM
- My sales performance is analysed and ranked against my peers
- Training is automatically personalised and generated and booked into my diary
- My next call is **queued**

4. Thinking about AI



Main **Questions**

- What is possible?
- What works well?
- What is the business value vs. cost?
- What data do we / should we have?
- How tech-ready are we?
- What are the risks?
- What are the risks of doing nothing?





- Privacy
- Hallucination & bias
- Transparency & accountability
- Jobs & Over-dependency

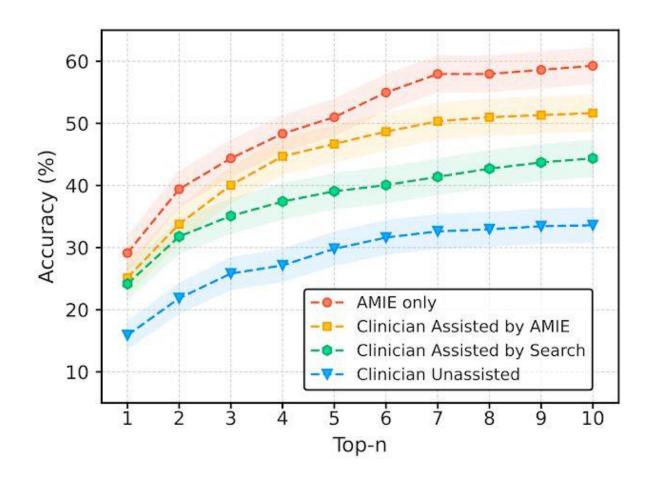


5. Can Al give Professional Advice?

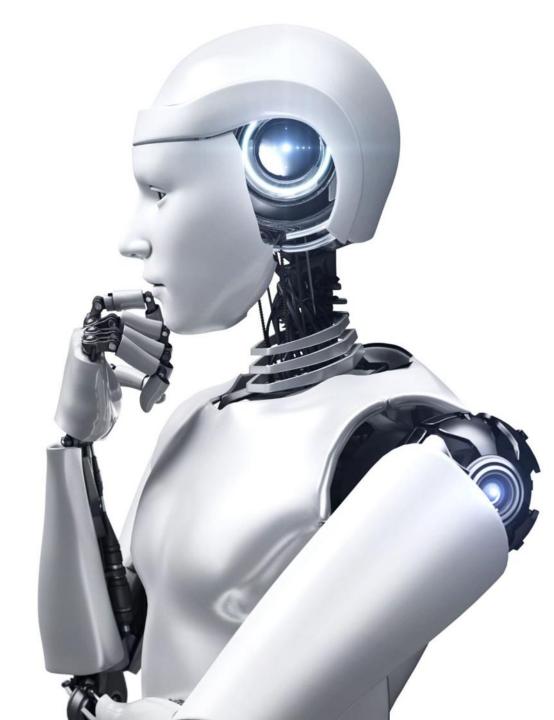


It Already Is

- Law
- Medicine

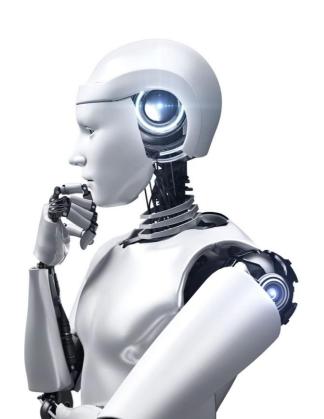


My Favourite Al Apps



Dynamic snapshots Slides Sketches \rightarrow Dashboards Create a company chatbot App build Conversational data analysis getluminal.com Dynamic documents **Build** automations Use tables for GPT Note taker and summaries Translation for BD For coding

www.plusdocs.com web.sendsteps.com mokkup.ai getcody.ai uizard.io nanonets.com cheatlayer.com tableconvert.com fireflies.ai clonedub.com Github co-pilot



Thank

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- List of AI agents: <u>https://github.com/e2b-dev/awesome-ai-agents#open_hands-open-source-projects</u>
- List of the best LLMs: <u>https://huggingface.co/models</u>

• Create an agent: <u>https://agentgpt.reworkd.ai/</u>