



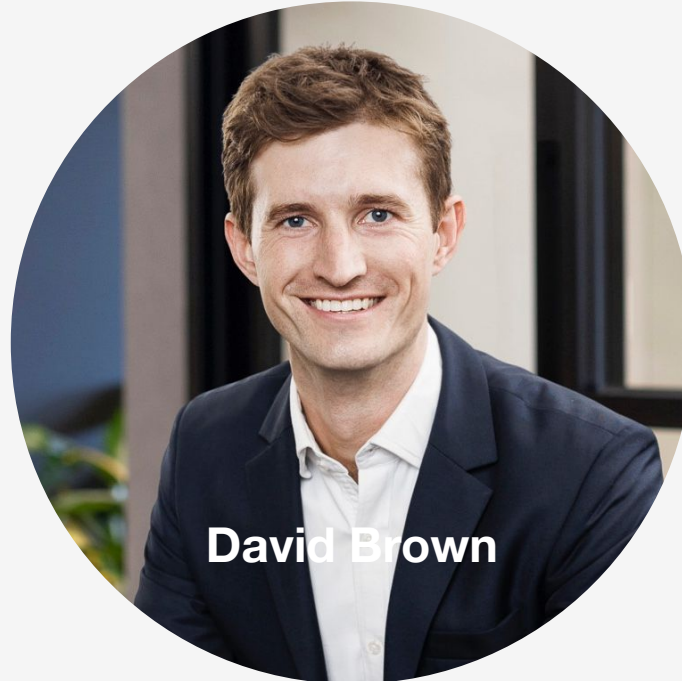
# Basic AI Tools for Criminal Law

Thursday 7 March 2024

# Speakers



**Nick Goodfellow**



**David Brown**

***“AI won’t replace people – but people who use AI will replace people who don’t.”***

# Purpose of this presentation

- **Brief introduction to AI**
- **Ethical issues and limitations**
- **Useful AI tools**
- **Where AI is heading**

## Q: How you would like to introduce yourself to a group of criminal lawyers?

*A: “Imagine an incredibly knowledgeable legal assistant at your fingertips, available 24/7. That's the power of Gemini, a cutting-edge AI language model from Google. It's trained on a massive collection of legal texts and can understand complex concepts within that domain. Gemini helps you find relevant laws and cases faster than ever, assists with drafting legal documents, and even analyzes case details to suggest strategies. It's like having a powerful research teammate, helping you streamline your work and uncover insights that could give your clients an edge.”*

# How AI works

**AI is a computer mimicking human intelligence and performing tasks that typically require human cognition**

- **Data collection**
- **Data processing**
- **Model training**
- **Evaluation**
- **Fine tuning**
- **Deployment and continuous learning**

# Ethical issues and limitations

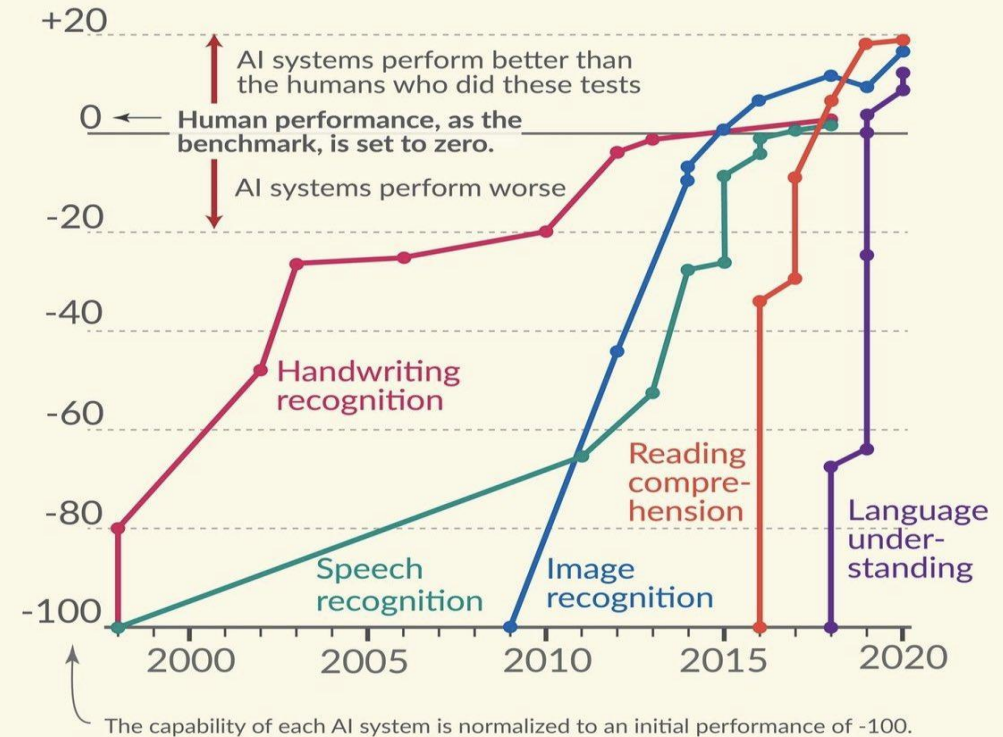
- **Accuracy**
- **Confidentiality**
- **Privacy**
- **Privilege**
- **Copyright & IP**

# The power of AI

- GPT-4 was tested on exams like the SAT and medical boards.
- On the SAT, it scored 1410, ranking in the top 6% nationally.
- Passed all versions of the medical board exams, with a mean score of 80.7%.
- Uniform Bar Exam (USA) - It passed the multiple-choice portion of the exam and both components of the written portion, exceeding the average score of real-life bar exam takers, scoring in the 90th percentile.

## Language and image recognition capabilities of AI systems have improved rapidly

Test scores of the AI relative to human performance



Source: Kiela et al. (2021) Dynabench: Rethinking Benchmarking in NLP  
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# What to use and how to use it

- **Engage with AI like an assistant – it's not a search engine or database**
- **Prime, prompt and polish**
- **Rules for prompting**
- **Main AI tools we will touch on are ChatGPT, Gemini and Dropbox**

# Dropbox

- **Transcribe & AI function**
- **Record of interview**
- **AI function and text search**

# Gemini

- **Large language model created by Google AI**
- **Capable of understanding and responding to complex queries**
- **Used in a variety of applications, including search and language translation**
- **Examples: resolution email & application for a stay**

# ChatGPT

- **An advanced language model developed by OpenAI, based on the GPT (Generative Pre-trained Transformer) architecture**
- **Designed to understand and generate human-like text based on the input it receives**
- **Version 4 – Training ended April 2023**
- **Multimodal – Text (typed, pdf, Word), images, and eventually sound.**
- **Coding**
- **Memory**
- **Voice app**

# ChatGPT - Examples

- **Proof reading & revising**
- **Summarise case**
- **Translation**
- **Photo review**
- **Submissions**
- **Research costs**
- **Predicting sentences**
- **Creating personalised GPT's**

# Other AI tools

- **Lexis+ AI**
- **Zoom**
- **Perplexity**
- **Email inbox management**
- **Personal assistants – transcribe/take minutes of meetings**

# Where AI is heading

## Near future

- **General improvements (ChatGPT 5 – Gemini Ultra)**
- **OpenAI is reportedly developing AI ‘agents’ that can perform multi-step tasks for users across different applications**

## More distant future

- **Judicial predictions**
- **Evidence collection**

# Nick Goodfellow

## Barrister

📞 +61 3 9225 7000

✉️ [nicholas.goodfellow@vicbar.com.au](mailto:nicholas.goodfellow@vicbar.com.au)

📍 **David Ross Chambers**  
**Level 9, 456 Lonsdale Street**  
**Melbourne, VIC 3000**

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Nick practices in all areas of criminal law and quasi-criminal matters, with a particular focus on occupational health and safety law.





# David Brown

## Barrister

☎ +61 3 9225 7000

✉ [davidbrown@vicbar.com.au](mailto:davidbrown@vicbar.com.au)

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Melbourne 3000


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CPD  ADVANCE

 +61 3 9225 7000

 [enquiries@parnellsbarristers.com.au](mailto:enquiries@parnellsbarristers.com.au)

 Level 2, 550 Lonsdale Street,  
Melbourne, VIC 3000

[www.parnellsbarristers.com.au](http://www.parnellsbarristers.com.au)