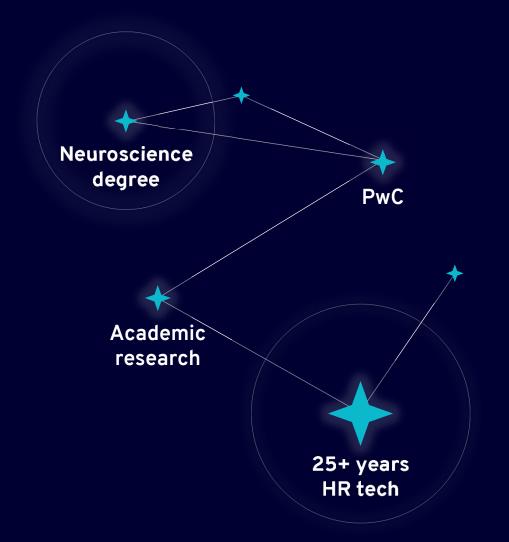




DIRECTOR OF PRODUCT - AI AND HCM, ZELLIS





### NODE

The global Al race: Balancing innovation, regulation and the battle for talent



Interview with Steve Elcock, CEO and Founder at UK HR Tech Company:

Al Is Your Coworker Now. Can You Trust It?

### **Technology Dispatch**

The AI safety summit: A need to focus on near-term data risks and boost investment in UK tech



THE AI JOURNAL

Optimising the 5 stages of Al for meaningful datadriven decisions





elementsuite

DANA LEIGH April 29, 2024

> Embracing AI and eliminating bias: Key HR trends and challenges in 2024





STANDARD \*

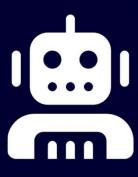
Al Safety Summit: Five key takeaways from Bletchley Park



# ALIS AN UMBRELLA TERM

# Artificial Intelligence

Computers systems that perform tasks that would usually require human intelligence



# Machine learning

Statistical techniques that learn from a series of inputs and outputs



### Deep learning

Algorithms that enable self-learning to mimic human intelligence





# WHERE IT ALL STARTED...

1957

First machine implementation of the Perceptron

1966

ELIZA, the first chatbot with natural language processing abilities was developed

1980

Expert systems gain popularity, enabling computers to mimic human expertise in specific domains

**CNNs (Convolutional Neural Networks) invented** 

1997

IBM's Deep Blue defeats chess champion Garry Kasparov, demonstrating Al's capabilities in strategic thinking.

LSTM networks invented

1950

Alan Turing proposes the question "Can machines think?" and lays the foundation for Al.

1961

Unimate, the first industrial robot, worked on a General Motors assembly line in New Jersey on a task deemed too dangerous for humans

1986

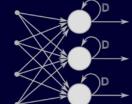
Mercedes-Benz built and released a driverless van equipped with cameras and sensors under the direction of Ernst Dickmanns. It was able to drive up to 55 mph on a road with no other obstacles nor human drivers.

RNNs (Recurrent Neural Networks) invented

1998

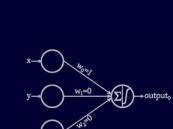
Furby was invented, the first "pet" toy robot for children.

















IBM's Watson wins Jeopardy!, showcasing Al's ability to process and understand human language.

-

Apple launched Siri, a virtual assistant on iOS, employing naturallanguage processing to provide personalised recommendations and responses to user queries through voice commands.



### 2012

The emergence of deep learning techniques leads to breakthroughs in image and speech recognition.

### 2016

AlphaGo defeats world champion Lee Sedol in the game of Go, a significant milestone in Al's progress.

### Al era of acceleration

Over the past 70 years, AI had been quietly advancing using various statistical, mathematical, and neural network modelling techniques. However, a pivotal moment occurred when computer processing power surged, and larger quantities of data became accessible.

### 2017

Google Brain released a paper titled "Attention Is All You Need", and introduced the Transformer model, revolutionising natural language processing by showcasing the effectiveness of attention mechanisms and achieving state-of-the-art results in various language tasks without relying on recurrent neural networks

### 2018

Using Transformer Architecture, OpenAl's GPT-3 language model demonstrates impressive natural language generation abilities

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### 2018

Using Transformer Architecture, OpenAl's GPT-3 language model demonstrates impressive natural language generation abilities

#### 2020

OpenAI released GPT-3 with 175 billion parameters. The vast size of the model is responsible for GPT-3 appearing to be intelligent and sounding like a real person at times

### 2022

OpenAI released ChatGPT in November

### 2023

OpenAl released GPT-4 in March and Meta release Llama2 in July

### 2024

Meta released Llama3 in April. OpenAl release GPT-40 in May.

Conilate Discourance of 20th Ma

This innovative framework brought in a new era of Al-driven advancements. The line in the sand was drawn with the introduction of Transformer Architecture, catalysing the release of ChatGPT and the Al giants we see in the market today.

data security and model oversight. Open-source models like LLaMA 3 and 4 continued to drive custom, sector-specific innovation.

# O1 AIIS MORE YOUTHINK



# THE LATEST AI **MODELS ARE MORE CLOSELY MODELLING THE** HUMAN RRAIN



86 BILLION neurons

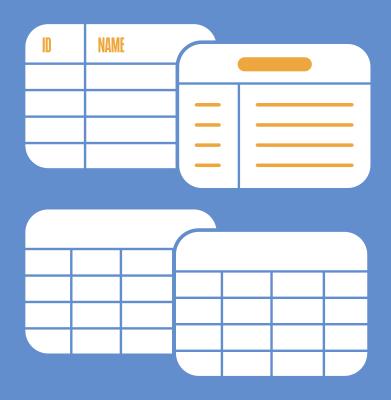
100 TRILLION synapses

The largest LLMs now have over 1 trillion parameters

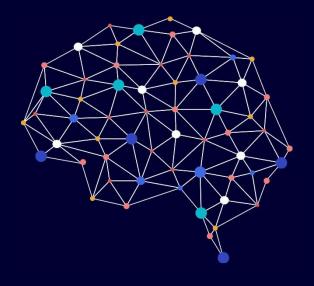
...and are using thinking and reasoning techniques



# RELATIONAL DATABASE / SPREADSHEET



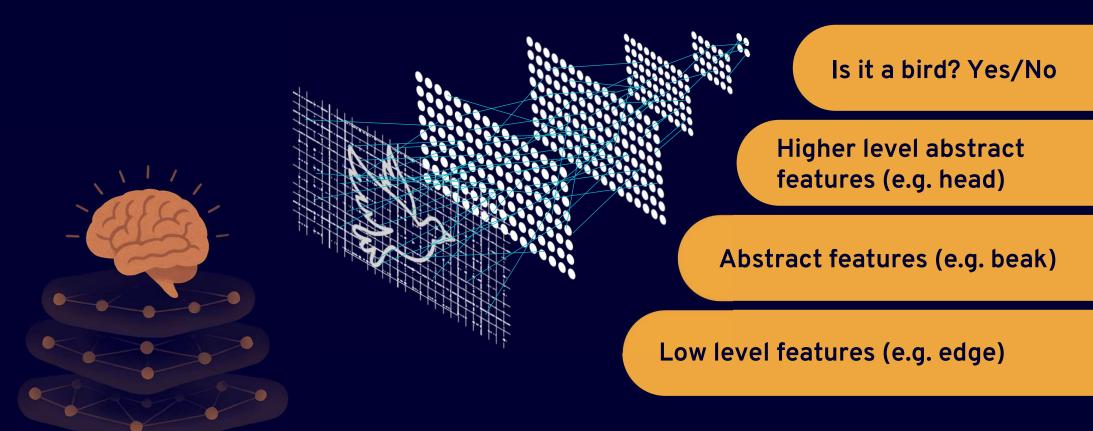
### **GRAPH VIEW**



The way that latest Al models work is very human

# **HOW THE BRAIN WORKS**

**LAYERS OF ABSTRACTION** 





# HR DATA VALUE CHAIN

### "LEVELLING UP"

Higher level (and value) abstract features and predictions

Built on lower level abstractions (e.g. correlations, absenteeism, engagement and predictive analytics)

**Predictive Analytics** 

**KPIs** 

**Dashboards** 

Reports & Query Builder

**Transactional HR Data** 

**Generative Al** 

**Deep Learning** 

**Machine Learning** 

HR Data Value statistical Testing



# MIXTURE OF EXPERS



# OZ PUTTING HUMAN-FIRST AI TO WORK



# ANDY GRAY DIRECTOR OF AI APPLICATIONS, ZELLIS



# USING AI TO FOSTER SAFETY, RESPECT AND INCLUSION IN THE WORKPLACE



# EMBEDDED LARGE LANGUAGE ASSISTANT

ELLA revolutionises HR software with Al-driven capabilities, serving as your 24/7 HR assistant – enhancing productivity whilst ensuring data security.

Elevate your HR data management and insights with ELLA and harness the power of Al within your organisation.

Here to transform your world of work, ELLA is a completely in-built Al toolset that provides the data security of our platform, whilst accelerating user productivity with all the abilities of an LLM

ELLA uses sophisticated Al grounding techniques, enabling response to your requests using your data, applying your HR data security, in your tone, using your company policies and guidance



Hello! I'm ELLA. How can I help you today?

Chat with ELLA

How do I report a workplace issue or conflict?









### **USE CASE**

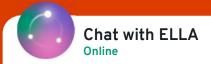
"Using AI to shine a light on the sometimes hidden, uncomfortable corners of workplace culture ensuring that every voice is heard, protected and acted upon"

- A fully featured Al chatbot available 24/7
- Al driven scripted question and response logic
- Automatic triage of actual SRI issues
- Contextual responses to non-SRI queries
- Multi-language support, including translation to English upon submission
- Fully confidential reporting of issues of a sensitive nature
- Available across 2 countries, 200+ companies, 1500+ locations and 160,000 users









Hi, thanks for raising a Red Flag. I understand this might be a difficult time for you. I will share your name and contact with our People Services Helpdesk so they can support you. If you'd rather report anonymously, you can fill out the form [here].

Can you tell me a bit about the situation or incident that led you to reach out? Feel free to use whatever language you're most comfortable with.

ELLA







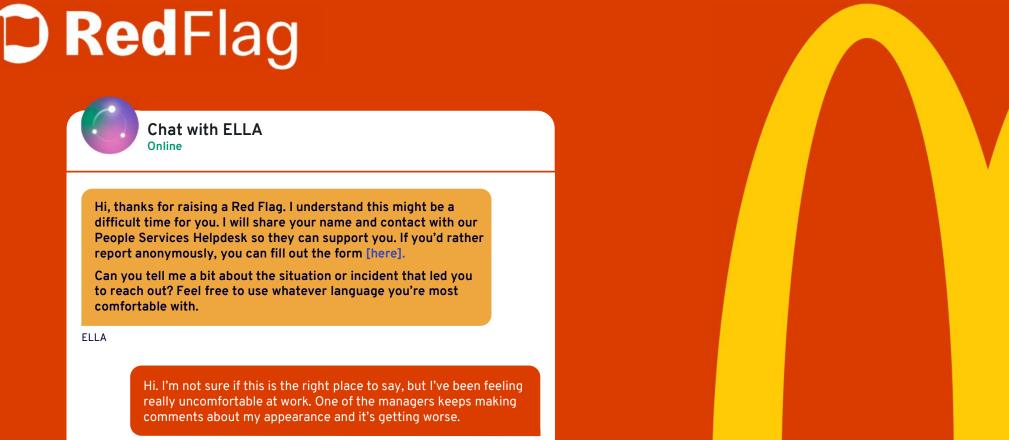


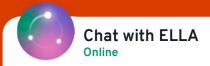












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ELLA

Hi. I'm not sure if this is the right place to say, but I've been feeling really uncomfortable at work. One of the managers keeps making comments about my appearance and it's getting worse.

Employee

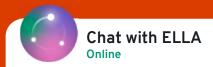












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Employee

Thanks for sharing this information regarding inappropriate comments about your appearance, which we take to be a very serious matter. I'll need to gather some more information to be able to progress the matter for you. Please can you provide the following information as accurately as possible. Your information will be treated in the strictest confidence. For more information about how your personal information is used, see our Privacy Notice.

To start: Are you reporting on behalf of yourself or someone else?

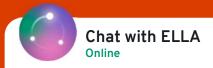
ELLA











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ELLA

Myself.

Employee











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Employee

Thank you. Are you under the age of 18 years?

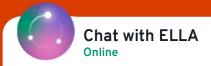
ELLA











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ELLA



Employee

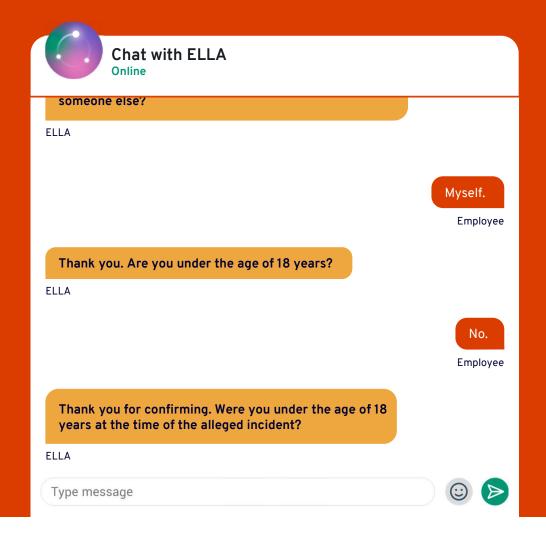






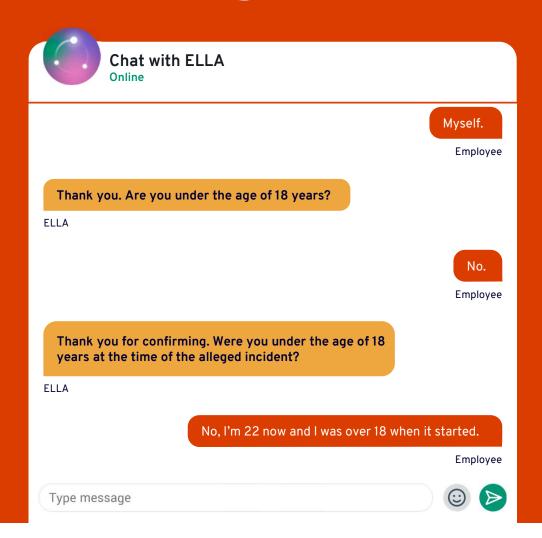


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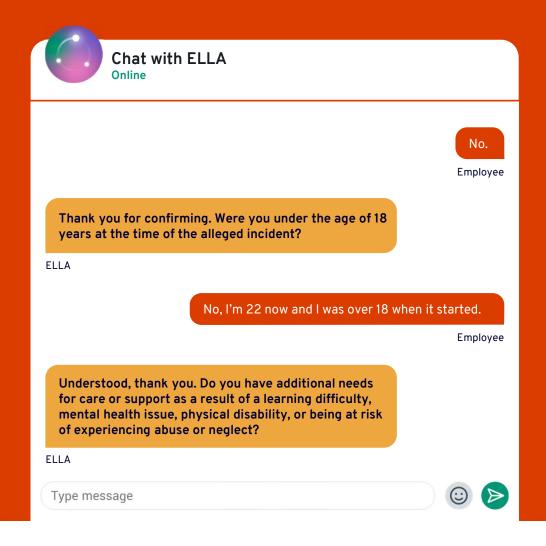




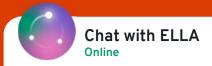
# 











Thank you for confirming. Were you under the age of 18 years at the time of the alleged incident?

ELLA

No, I'm 22 now and I was over 18 when it started.

Employee

Understood, thank you. Do you have additional needs for care or support as a result of a learning difficulty, mental health issue, physical disability, or being at risk of experiencing abuse or neglect?

ELLA

No, I don't.

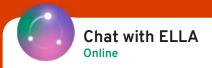
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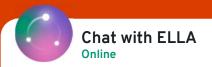
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ELLA

It's been going on for a couple of months. My shift manager keeps commenting on how I look, saying things like "You'd look better if you smiled more" or "That uniform suits you too well." It's made me really anxious before my shifts.

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Employee

I'm sorry to hear that – thank you for sharing. Was there one single incident or a series of incidents?

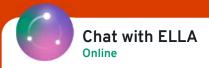
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Please start by explaining the circumstances which have led you to reach out.

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A series of incidents, like I said it's been happening off and on for a few months.

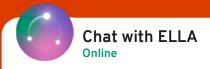
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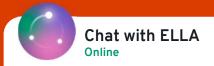
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I think it started around the middle of March and the most recent comment was just last Friday.

Employee

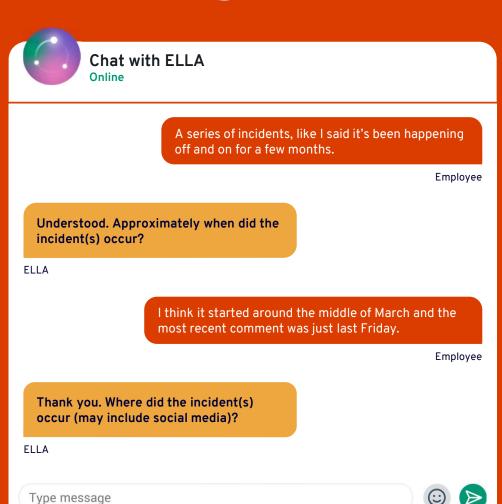




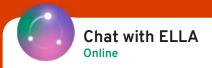




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At the restaurant during my shifts – mainly in the staff area or when we're closing up.

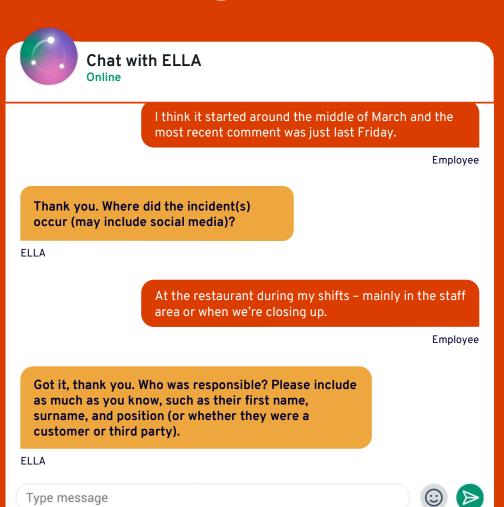
Employee





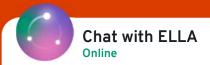








zellis



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ELLA

At the restaurant during my shifts – mainly in the staff area or when we're closing up.

Employee

Got it, thank you. Who was responsible? Please include as much as you know, such as their first name, surname, and position (or whether they were a customer or third party).

ELLA

His name is Josh – I don't know his last name, but he's a shift manager.

Employee











At the restaurant during my shifts – mainly in the stair area or when we're closing up.

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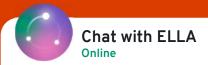
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I think Rachel might have heard one of the comments last week. She was nearby when we were closing.

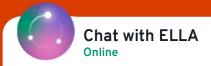
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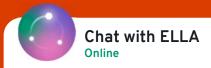
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ELLA

I think Rachel might have heard one of the comments last week. She was nearby when we were closing.

Employee

Thank you. Has the incident been reported to someone more senior than you?

ELLA

No, I was too nervous.

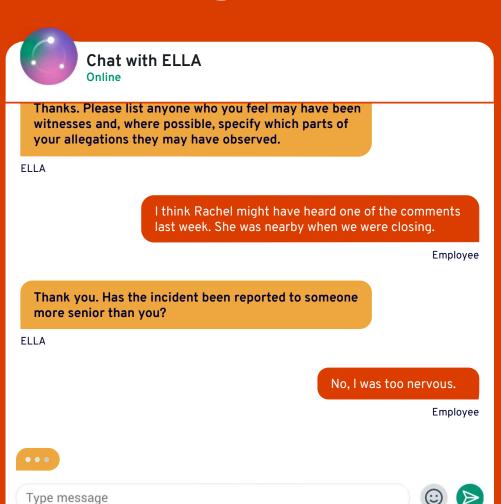
Employee













zellis



That's completely understandable, and I appreciate you coming forward.

Thank you for providing the details. Here's a summary of what I have captured so far:

- · You are reporting on behalf of yourself.
- You are over 18 and were over 18 when the incidents occurred.
- · You do not have additional needs for care or support.
- The issue involves a series of inappropriate comments made about your appearance by a shift manager named Josh.
- The incidents have occurred since around mid-March, with the most recent one last Friday.
- The comments have taken place at your restaurant, typically in the staff area or during closing.
- Rachel may have witnessed one of the more recent incidents.
- You have not reported this to anyone more senior yet.

Please confirm that the information provided is accurate. If you would like to make any changes or add anything, please let me know now.

ELLA











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- · You are over 18 and were over 18 when the incidents occurred.
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ELLA

Yes, that's all accurate. Thank you.

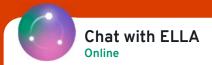
Employee











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Yes, that's all accurate. Thank you.

Employee















To confirm what will happen next, our People Services Helpdesk team (PSHD), will be in contact with you directly to provide support and discuss how the matter will be dealt with and what you can expect. You will get a notification directly from them very shortly and you can add any additional information to your case. They can also be reached through their portal here which includes Live Chat access and details of other available channels.

Again, please remember if you need to access support the Employee Assistance Programme is available at any time. It is a free service that provides you with confidential support and advice. You can contact them at any time on 0808 157 0123 (UK) 1800 260 123 (ROI). Or you can visit EAP online here with your email address and password you have used previously, if this is your first time using EAP you will also need the McDonald's access code A236546.

We appreciate you taking the time to let us know about your experience. Reporting helps McDonald's identify and address any trends or systemic problems. Reporting on Harassment, Discrimination Bullying, and victimisation helps to keep McDonald's a safe, respectful and inclusive place to work.

ELLA

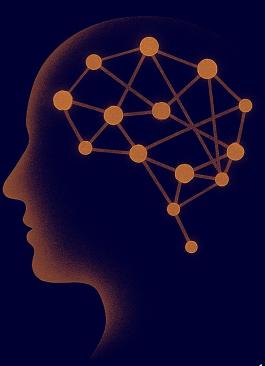








## O3 HOW SHOULD YOU THINKABOUT HUMAN-FIRST A17

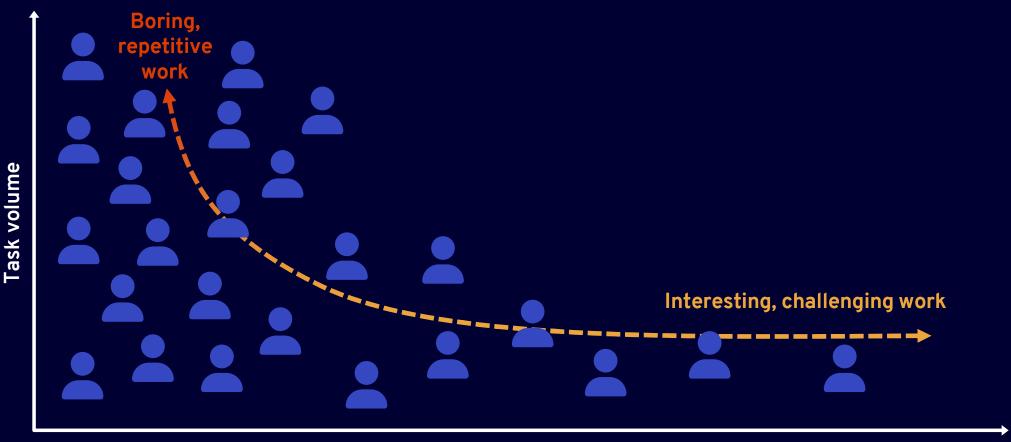


## AI CAN BE USED TO HELP EMPLOYEES "LEVEL UP" TO FIND MASTERY AND MEANING IN THE WORKPLACE



## WHAT ARE OUR "FRONTIERS OF AUTOMATION"

#### THINGS THAT COULD BE AUTOMATED WITHIN YOUR COMPANY

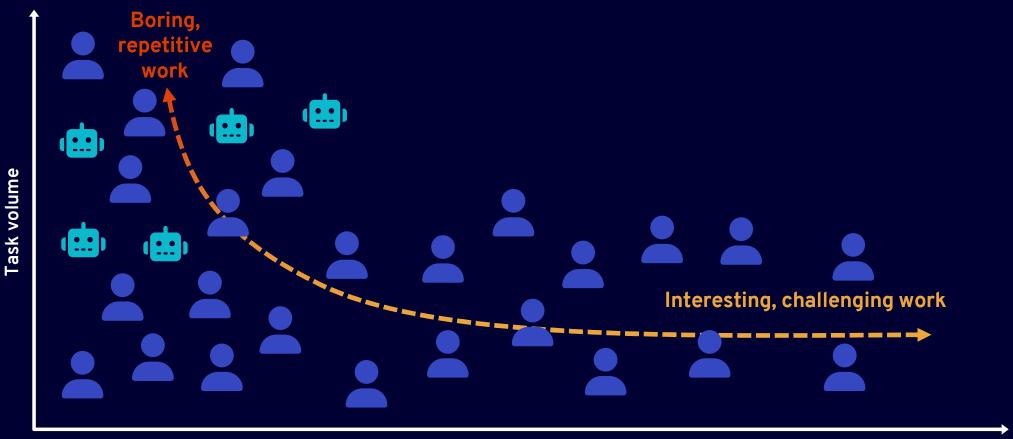


Task complexity and value



## WHAT ARE OUR "FRONTIERS OF AUTOMATION"

#### THINGS THAT COULD BE AUTOMATED WITHIN YOUR COMPANY



#### OPPORTUNITY ACROSS THE BUSINESS

#### **HOW TO FRAME YOUR USE CASES**

#### From



- Task management
- Automated matching
- Prioritisation
- Meeting summarisation
- Customer summarisation
- Building reports
- Testing

To



- Customer relations
- Business cases
- Market analysis
- Business insights "what if" scenario planning
- Personal development
- Risk assurances

#### **PUTTING AI TO WORK**

#### THINGS TO THINK ABOUT

What AI tools do you have available?

Make sure these are approved and secure

What parts of your job role are candidates for Al and automation?

Off-loading can level you up

3 How would you teach someone junior to do these things?

Write instructions down in detail

4 Create a knowledge base

Al can use instructions and workflow as a scaffold for knowledge

5 Define & be clear on your use cases

Think about how you would test and prove value

6 Test & repeat until it works consistently

Refine the prompts, feedback into the knowledge base



#### WHAT ARE THE USE CASES?

#### THINGS IN YOUR WORKPLACE THAT AI COULD BE PUT TO WORK ON

Content generation



Contracts, documents, letters, job postings, and so much more Company knowledge retrieval



Securely retrieve real-time company information

24/7 HR assistant



Working safely with your PII, IP, and confidential information

Workflow and agents



Boost productivity by automation and actions



#### WHAT ARE THE USE CASES?

#### THINGS IN YOUR WORKPLACE THAT AI COULD BE PUT TO WORK ON

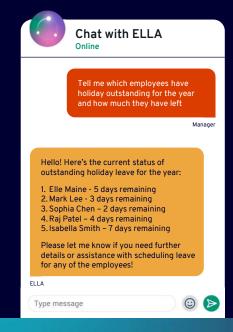
#### Content generation



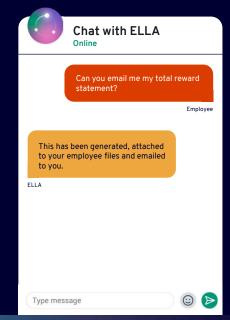
Company knowledge retrieval



24/7 HR assistant



Workflow and agents



Contracts, documents, letters, job postings, and so much more Securely retrieve real-time company information

Working safely with your PII, IP, and confidential information Boost productivity by automation and actions

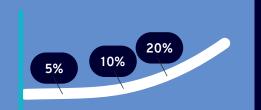
# PRODUCTIVITY\_INDEX Manual

**Technology** 

Al

#### You need to measure this value:

- Is the task now 5%, 10% or 20% quicker than before?
- This concept is similar to an FTE



This thinking should be led by HR as part of OD (Organisational Design)

So this will help you determine the extent that as a business you are going to deploy Al tools to improve productivity



## OPERATING MODEL

An operating model or heat map is a good way to frame where the most value could be derived from implementing Al

What are the use cases?

Heatmap								
Recruitment	Training & Development	Performance Management	Person & Organisation	Employee Relations	Scheduling	Attendance & Absence	Compensation & Benefits	Manage Payroll
Initiate vacancy	Design training	Set objectives / PDP	New starter	Grievance	Forecast demand	Time recording	Reward planning & management	Manage deductions
Apply	Plan training	Review performance	Assignments	Disciplinary	Workload modelling	Planned absence	Salary review	Manage payments
Screen applicants	Enrol on training	Manage talent	Movers	Appeals	Maintain availability	Unplanned absence	Manage benefits	Run payroll
Select candidate	Complete training	Succession planning	Leavers	Manage tribunals / compromise	Create schedule	Authorise payable time	Manage bonus incentives	Generate pay
Make offer	Manage training records	Promotions	Structure changes	Employee engagement	Maintain schedule	Manage long term absence	Manage pensions	Manage HMRC
Hire	Manage development programmes	Continuous feedback		Manage union relationships	Execution			Manage expenses
Onboard	Complete induction			Incident management				Run end of year



### SECURITY OF YOUR PII DATA

**Authentication** 



Who are you? Verify user's identity

**Authorisation** 



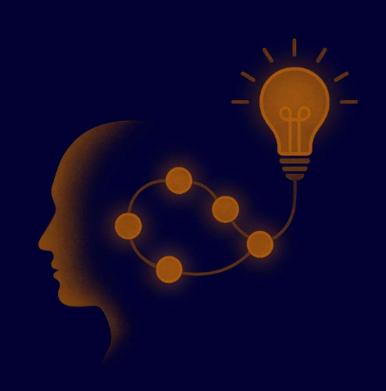
What are you allowed to do?

Determine user permissions



# THINKABOUT HOWYOUTHINK

Write it down and turn it into reusable workflow (aka an "agent")



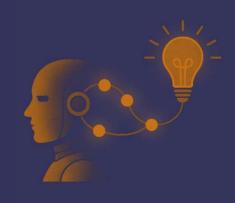
## THINK ABOUT HOW YOU THINK

Write it down and turn it into reusable workflow (aka an "agent")



# USE AI TOOLS TO THINK FOR YOU

But check its work and always consider data security / PII



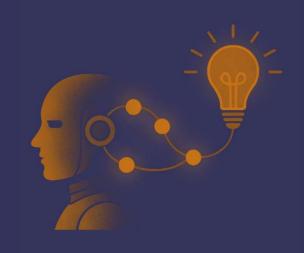
## THINK ABOUT HOW YOU THINK

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## USE AI TOOLS TO THINK FOR YOU

But check its work and always consider data security / PII



# FROM MUNDANE TO MASTERY & MEANING

Level up with Human-First Al





**Useful Resources** 

State Of AI

https://www.stateof.ai/

Stanford Al Index

https://aiindex.stanford.edu/report/

Andrej Karpathy

Thought leader (tech)

