



RACCOONS PRESENTS:

The potential of generative AI for HR in the hospitality industry



Hi there!



Michiel Vandendriessche

Co-founder Raccoons
michiel@raccoons.be



Daphné Vermeiren

Marketing manager Raccoons
daphne@raccoons.be



NEXT UP:

What is Raccoons

We are Raccoons.
We explore how
artificial intelligence
can have business
impact





You might have
heard us talk
about AI
technologies

We create agile
teams tailored to
your challenge



acerta

helan

dccle

Odisee
DE CO-HOGESCHOOL

J&J

TVH

hvw
OPENBARE INSTELLING
VAN SOCIALE ZEKERHEID

vito

VDAB

PSA

m

e
EUROCONTROL



FLANDERS
INVESTMENT
& TRADE



Van Marcke



Carrefour

ethias

vives hogeschool

acco

**Bank
VanBreda**

vr̥t

vtm

ING

VOLVO



VANS

Dexter
Dé boekhoudtool voor bijberoepers

KBC

Stichting Alzheimer Onderzoek

Nieuwsblad

MOBILE VIKINGS

We empower
businesses to
unlock their full
potential and
thrive in an
increasingly
AI-driven world

We help major players to seamlessly
integrate AI at the core of their
organization, both technically and
strategically.

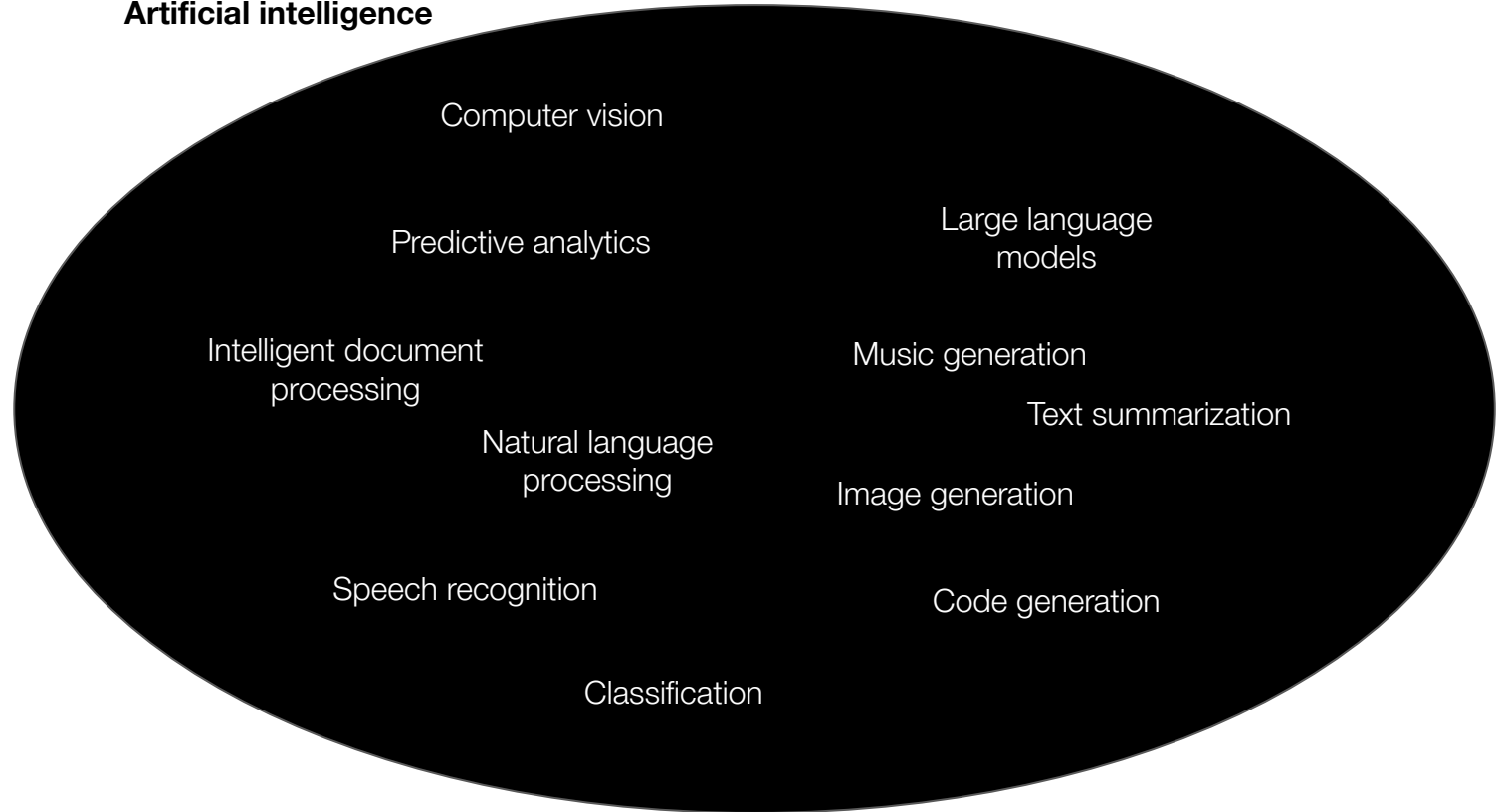


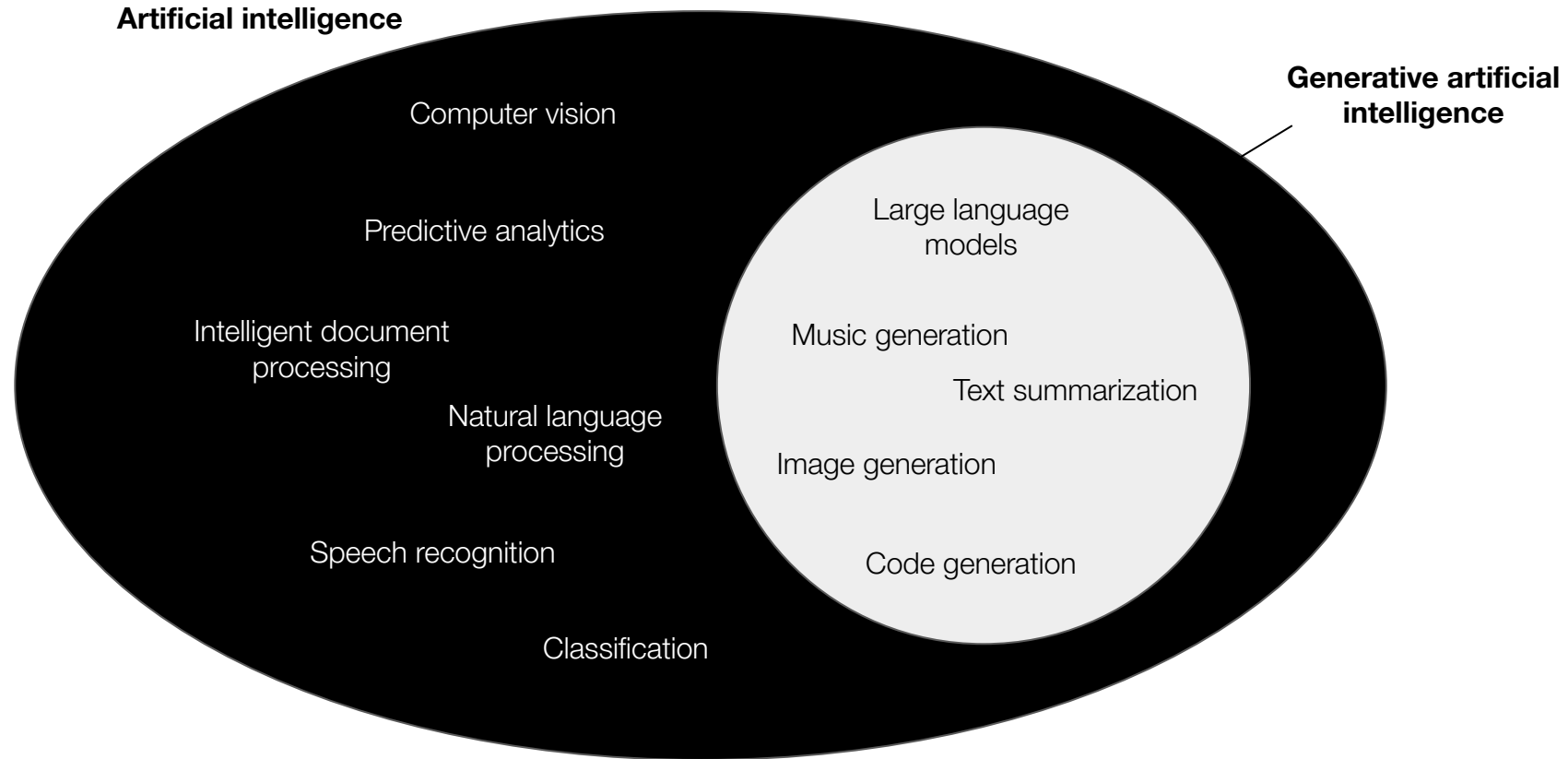
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An introduction to generative AI

Artificial intelligence is the theory and development of computer systems able to perform tasks normally requiring human intelligence

Artificial intelligence





With the power of generative AI,
computers can now **create** new content
in different formats



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Generative AI unraveled

Generative AI for text

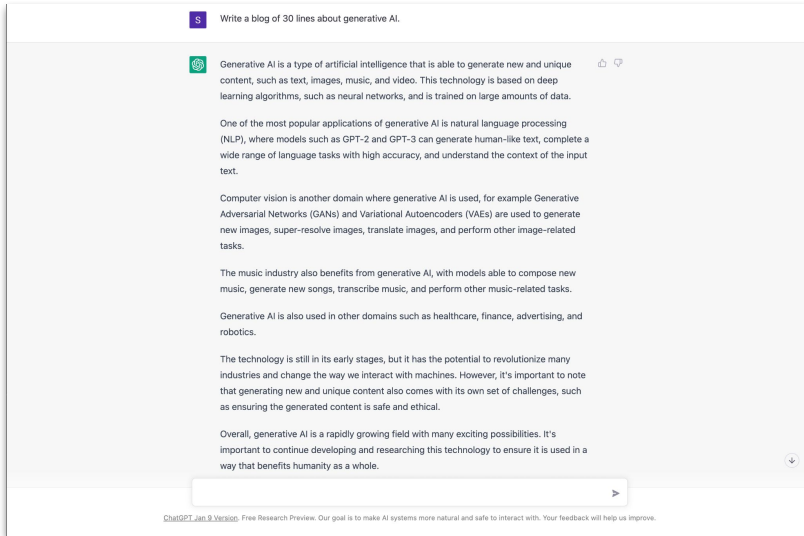
Large language models, such as GPT, are revolutionizing the way we interact with text by enabling a range of advanced capabilities:

- **Text generation:** Given a prompt, these models can produce coherent, contextually relevant text
- **Text interpretation:** By understanding and analyzing text, generative AI can extract meaning, categorize information, and even detect sentiment
- **Text reasoning:** These models can engage in complex reasoning, drawing inferences, answering questions, and providing insights that mimic human thought processes

OpenAI ChatGPT

ChatGPT is a large language model developed by OpenAI that can generate human-like text and complete a wide range of language tasks with high accuracy.

- Generates **human-like text**
- Based on **GPT** LLM family
- Can complete various **language tasks**
- **“Raw demo”** tool of the GPT LLM
- **“Plus” version** available



DEMO: chatgpt.com

Generative AI for audio

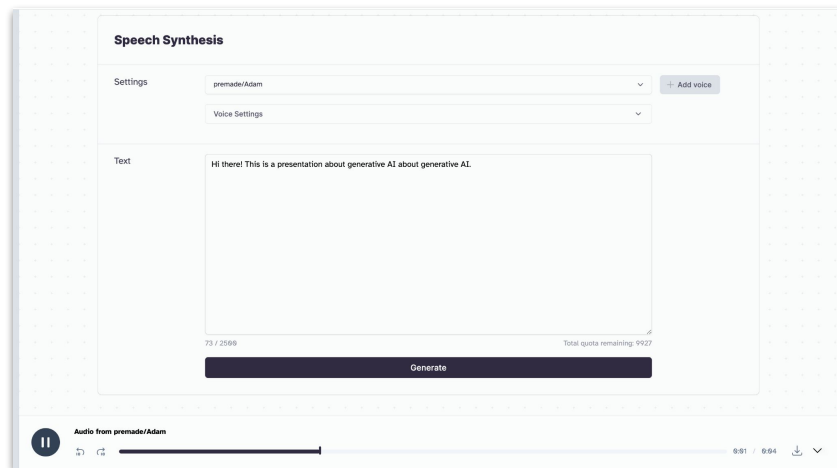
Generative AI is revolutionizing the audio domain with cutting-edge capabilities:

- **Voice generation:** These models can create synthetic voices by adjusting various parameters, allowing for the creation of unique voices tailored to specific needs
- **Voice cloning:** By analyzing existing audio samples, generative AI can accurately clone voices
- **Music generation:** Given a text prompt, these models can generate original music compositions, enabling new possibilities in music production

ElevenLabs

ElevenLabs launched their VoiceLab which is their one-stop-shop for voice cloning and creating new voices. Samples uploaded to VoiceLab are instantly available for use in Speech Synthesis.

- **Voice cloning** based on very short example
- Instantly available afterwards as a **text-to-speech** engine
- **New voice generation** also possible (*without voice cloning*)
- Used to be a **very hard problem** to solve (*large dataset required*)



DEMO: elevenlabs.io

Generative AI for images

Generative AI is making significant advancements in the field of image processing, offering powerful tools for various applications:

- **Image generation:** From a simple text prompt, these models can create detailed, high-quality images
- **Image upscaling:** Generative AI can enhance the resolution of existing images, improving clarity and detail without losing quality
- **Image editing:** With customized tools and software, these models allow for sophisticated image editing, enabling users to modify, refine, or transform images with unprecedented ease and precision

DALL·E 3

DALL·E 3 is an AI model created by OpenAI that generates images from natural language text, and can also complete text based on a given prompt.

- **Updated** version of DALL·E 2, which was released in May 2022.
- Able to **generate a wide range of images from text**, from simple drawings to more complex and realistic images.
- Part of the **ChatGPT** platform
- **No advanced prompt engineering** needed!



DEMO: chat.openai.com

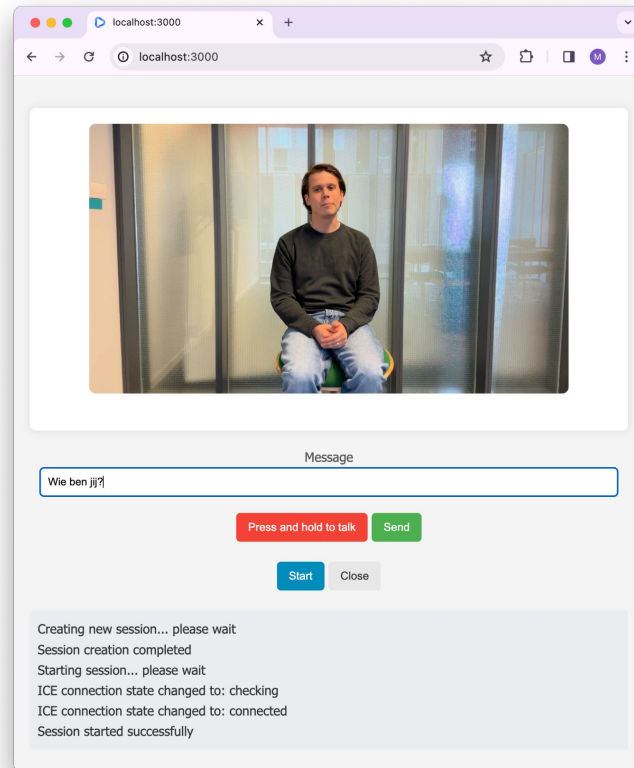
Generative AI for video

Generative AI is pushing the boundaries of video content creation with innovative capabilities:

- **AI avatars:** These models can create realistic AI-driven avatars, capable of mimicking human expressions and movements, which can be used in virtual assistants, video games, and digital influencers
- **Video generation:** From a text prompt, and possibly an image, these models can generate entire video sequences, making it possible to create animations, promotional videos, or cinematic content with minimal manual effort

Interactive AI avatars

Real-time digital AI avatars offer lifelike AI agents that can provide 24/7 assistance. These virtual agents, integrating with large language models, enhance user engagement, scalability, and cost efficiency while delivering data-driven insights. The technology stands out for its realism and flexibility, suitable for diverse industries like e-commerce and healthcare. By leveraging AI for customer interactions, businesses can offer superior service, improving satisfaction and loyalty.





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Use cases for businesses

The true power of
generative AI unfolds by
integrating the
technology into core
processes of
organizations.

And this is possible, **if**:

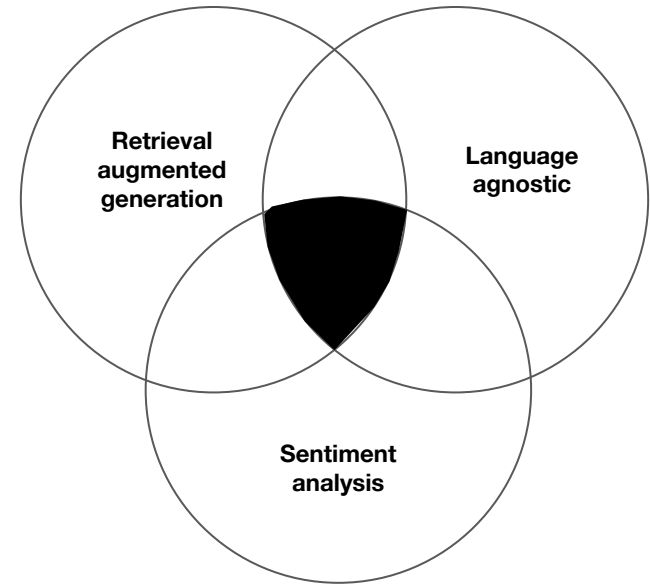
- You have the right **technical** expertise.
- You analyse the **core processes** thoroughly.
- You identify your **champion use cases**.

So, how do you get started?

1. **Identify** your processes.
 2. Identify steps in the process where **(generative) AI** could help.
 3. Identify steps in the process where **human validation** is necessary.
 4. Select the **right technology**, keeping GDPR, privacy, and security in mind.
 5. **Implement.**
- **The goal?** Creating more efficient, faster, and cost effective process where people are at the core.

Question answering

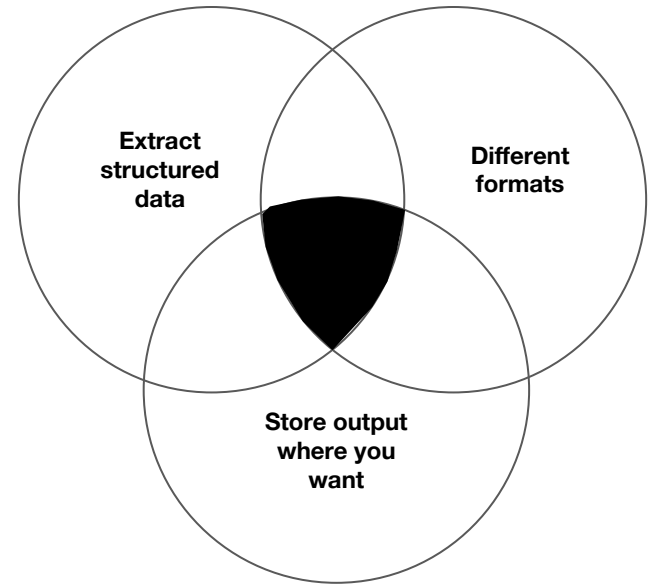
- **Retrieval augmented generation:** Based on your own company data, enabling personalized, factual and relevant interactions.
- **Language agnostic:** Ability to adjust language and communication style according to user preferences and profiles.
- **Multi-channel integration:** Operable across various communication channels, providing a seamless experience for customers.
- **Human in the loop:** Can function with or without human oversight, offering flexibility in deployment and operation.
- **Sentiment analysis:** Capable of analyzing and adapting to customer sentiments, enhancing engagement and satisfaction.



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Data structuring

- **Extract structured data:** Extract structured data from spoken notes, meetings, blogs, articles, product descriptions...
- **Different formats:** Not only extract data from text, but also images, videos, infographics, product packages...
- **Searchable data:** By structuring data, the data is searchable by both classical and semantic search engines, enabling better data retrieval now and in the future
- **Fixed vs loose structure:** Decide how you want to structure your data, based on a fixed structure you provide, or let the AI define the structure
- **Store output where you want:** Structured output can be stored in a CRM, a CMS, a database, an HR platform...



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Limitations & considerations

As with every innovation, with excitement, so comes risks. There are still ethical and practical considerations, maybe even risks, that you must consider when calling upon generative AI.

- **Generative AI can be wrong**
- **Systemic bias**
- **Privacy concerns**
- **Intellectual property rights**
- **Sustainability**
- **Safety & security**
- **If needed, put a human in the loop**
- **Models are often trained on historic data**

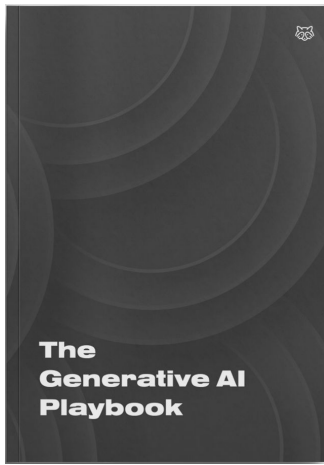
What about job displacement?

EXPERT VS TOOL?

EXPERT + TOOL > EXPERT

AI WILL NOT REPLACE YOU,

**AI WILL NOT REPLACE YOU,
BUT THE PERSON USING AI
WILL.**



Generative AI playbook



The AI Integration Framework

