

Generative Artificial Intelligence (AI) With Metahuman

DAISY

**UKHSA CONFERENCE** 

November 2023

**Get the Future** 

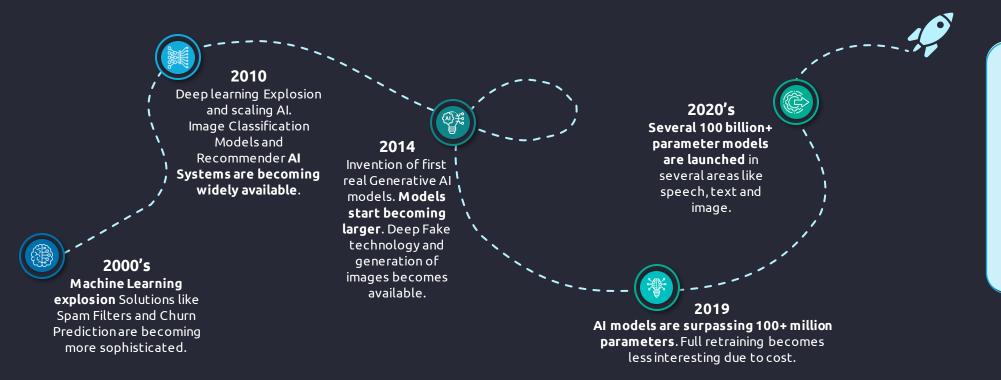
You Want



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## THE NEW PARADIGM OF GENERATIVE AI





What is next?

# integration and adoption

Large Model development for most companies becomes unfeasible without external Gen. AI expert support

#### New Models And Use Cases For Generative Al Companies Are Being Developed Almost Weekly

General writing Help



Sales emails

Marketing content

Support via chat/email

Design prototyping



Asset generation

Ad hoc customization

3D models generation



Video Asset Curation

Video Generation

See Your Product



Voice Synthesis

Accent Cloning

Speech Understanding

**Unscripted IVR** 



Programming Assist

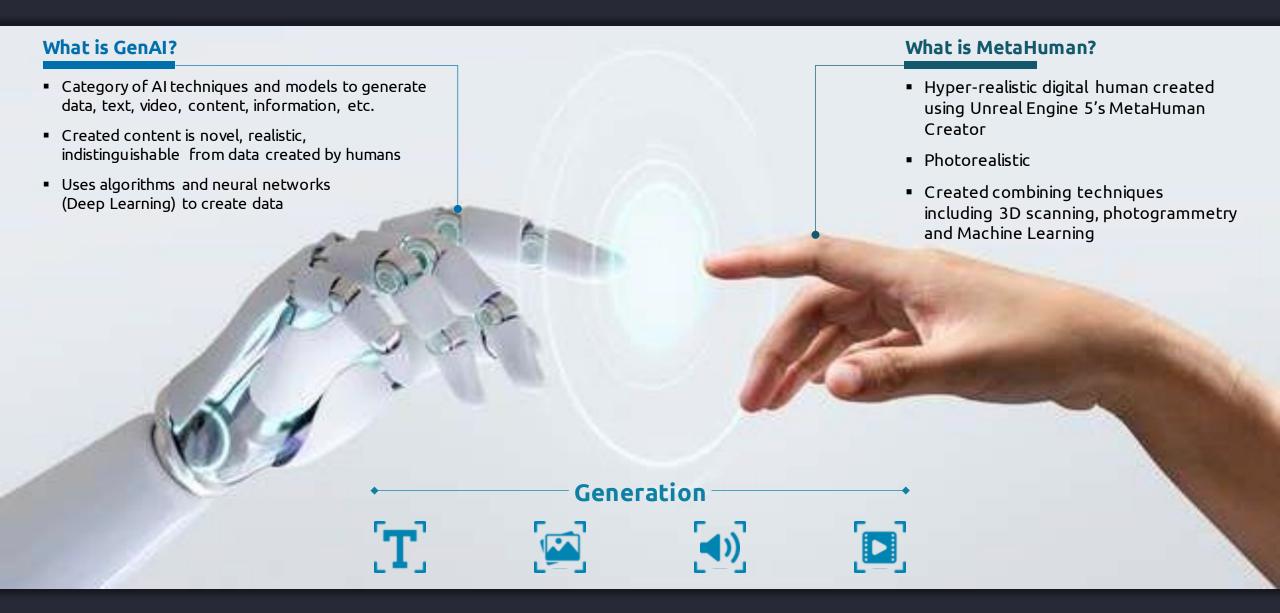
Code documentation

Text to App builders

Codebase Translation

## **GENERATIVE AI & META HUMAN**





## **NOT ANOTHER CHATBOT**



Ok Google, turn on the Light

You got it, turning on the Light.





- Chat function based on Flowchart or Logic Schedule
- Answers 80% of the questions
- Knowledge graph created using AI from previous cases, rule documents etc. resulting in a clear process

"Alexa, turn on the outlet."





# DIGITAL ASSISTANT

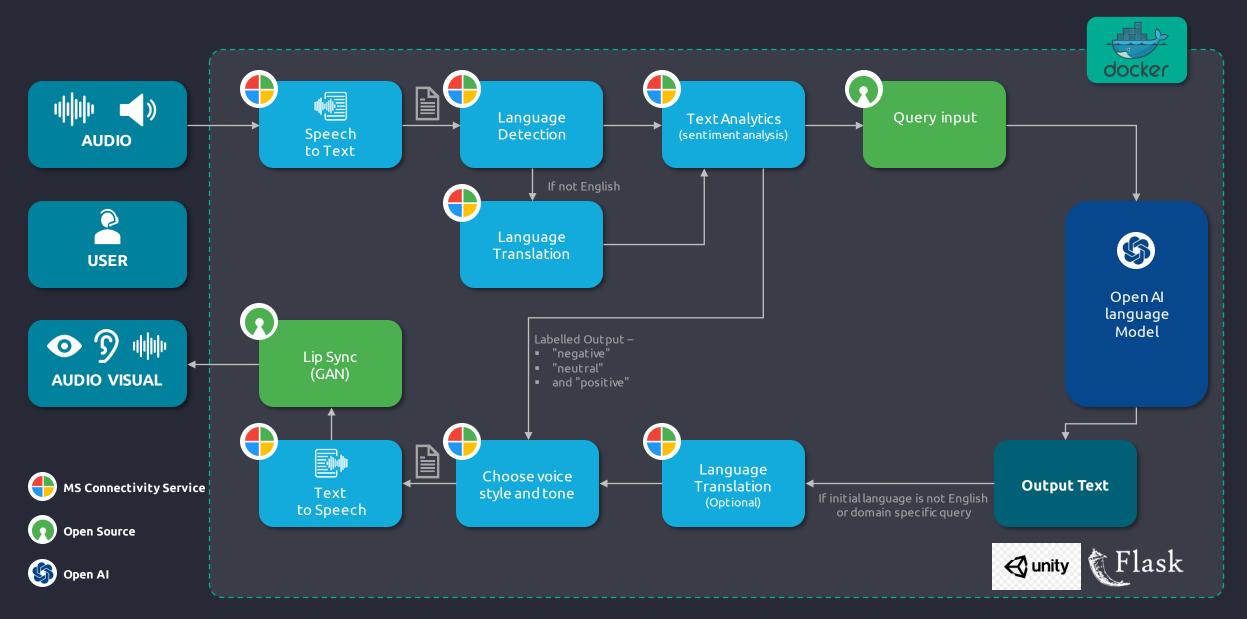
- Human avatar
- Understand spoken language
- Responds automatically
- Creates a human like conversation and discussion
- Trained with text from your organization

DIGITAL COWORKER



## **PROCESS FLOW**





# **UKHSA USE CASE – 1**

# soget

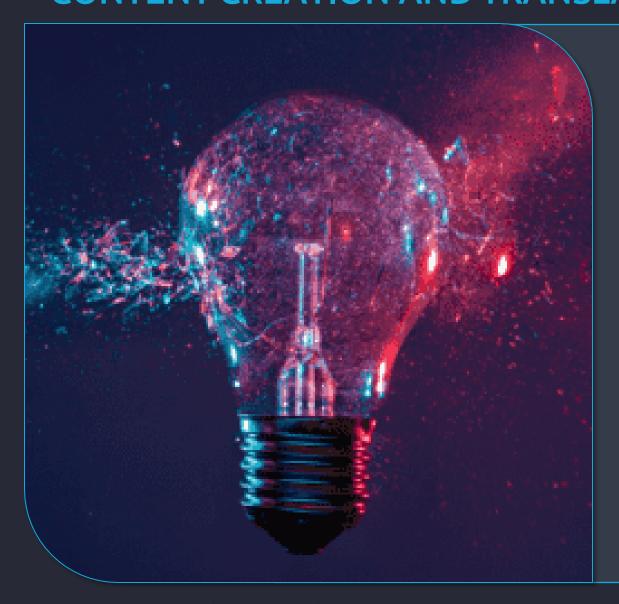
# - HEALTH ANALYSIS, DATA ANALYTICS AND RESPONSE



- Monitor global health data sources, news and reports to provide real-time updates on potential disease outbreaks or epidemics
- Helping in formulating response strategies, including resource allocation, travel advisories, and communication to the public
- Assist in analysing trends and patterns in public health data. Identify hotspots for diseases, track vaccination coverage, provide insights into health disparities and assisting the UKHSA in making informed policy decisions
- Provide personalised health advice and education to the public

# UKHSA USE CASE – 2 – CONTENT CREATION AND TRANSLATION

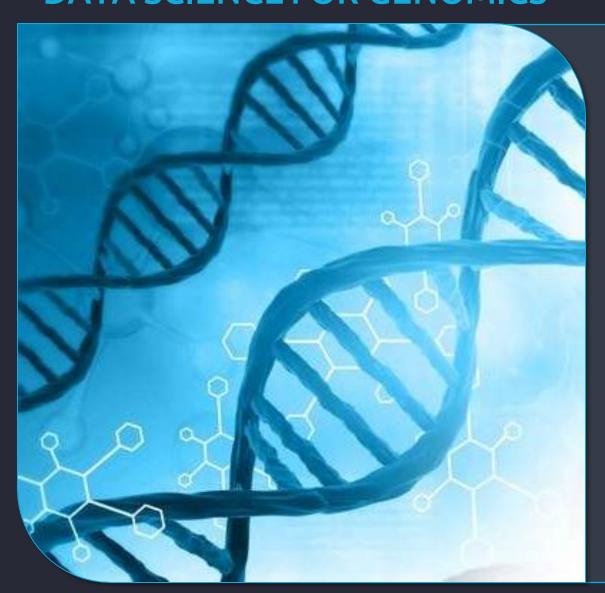




- Generate informative and easy to understand health education materials including preventive measures, vaccination information, healthy lifestyle choices, and specific health conditions
- Assist in developing content for public health campaigns, posters, brochures, social media posts, etc.
- Help create blog posts and articles for the UKHSA website, covering topics related to public health, disease prevention, updates on health regulations and research findings
- Generate memos, reports and other internal documents including drafting training materials, policies and procedures
- Helps in translating the communication to serve non-English-speaking population

# UKHSA USE CASE – 3 – DATA SCIENCE FOR GENOMICS





- Conduct literature reviews, helping to stay updated on the latest publications, studies and breakthroughs in the Genomics field
- Assist in / suggest data preprocessing tasks, such as data cleansing, normalisation, and feature engineering for genomic data
- Provide guidance on preparing data for downstream analysis, including variant calling, RNA-seq and microarray data
- DAISY can provide relevant algorithms and ML model architecture for ML in genomics

### **UKHSA USE CASE – 4**

# sogeti

## - ASSISTANCE IN BUILDING TECH STRATEGIES



- Provide insights into optimising IT infrastructure
- Analyse current infrastructure, assess future needs, and recommend hardware, software, and cloud solutions
- By staying updated on the latest cybersecurity threats and best practices, offer recommendations for improving security measures and assist in formulating robust cybersecurity strategy
- Provide guidance on data governance, data storage solutions, data analytics strategies
- Keep updated on changing regulations and ensure UKHSA technology strategies remain compliant



#### About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of over 360,000 team members more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2022 global revenues of €22 billion.

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#### About Sogeti

Part of the Capgemini Group, Sogeti makes business value through technology for organizations that need to implement innovation at speed and want a local partner with global scale. With a hands-on culture and close proximity to its clients, Sogeti implements solutions that will help organizations work faster, better, and smarter. By combining its agility and speed of implementation through a DevOps approach, Sogeti delivers innovative solutions in quality engineering, cloud and application development, all driven by AI, data and automation.

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