

How Data and Al are
Shaping the Future of Air
Travel

Liam Gilbey 16 May 2024

TODAY'S AGENDA



Al at Air New Zealand

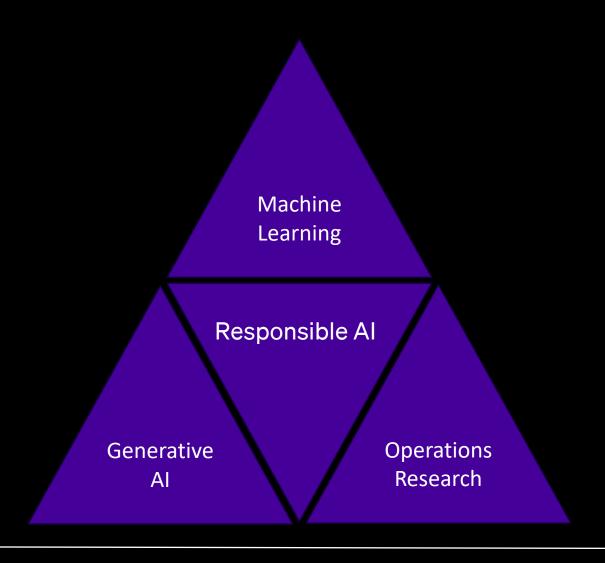
Generative AI

Maximising benefit from AI

Managing risks of Al

AIRNZ AI





MACHINE LEARNING



- Making predictions based on patterns observed in historical data
- Example Predictive Maintenance



OPERATIONS RESEARCH



- Applying analytical methods to decision making
- Example allocating flights to planes



WHAT IS GENERATIVE AI?



Generative AI allows computers to answer questions, produce content, or perform some tasks at a human-like level. It is particularly good at:

Content creation:

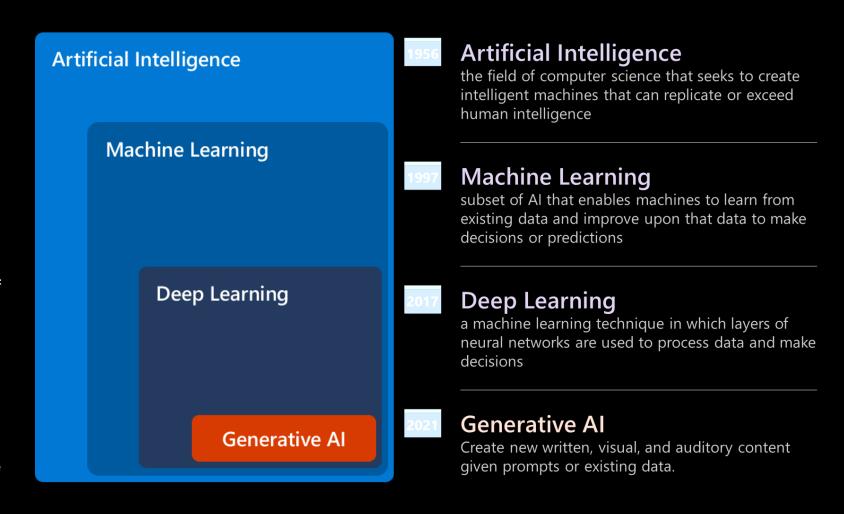
Creating new content such as images, text, or speech that is similar to examples from a given dataset.

Data analysis:

Learn the underlying probability distribution of a given dataset and use this knowledge to generate and identify patterns, make predictions, or generate insights from data.

Automation:

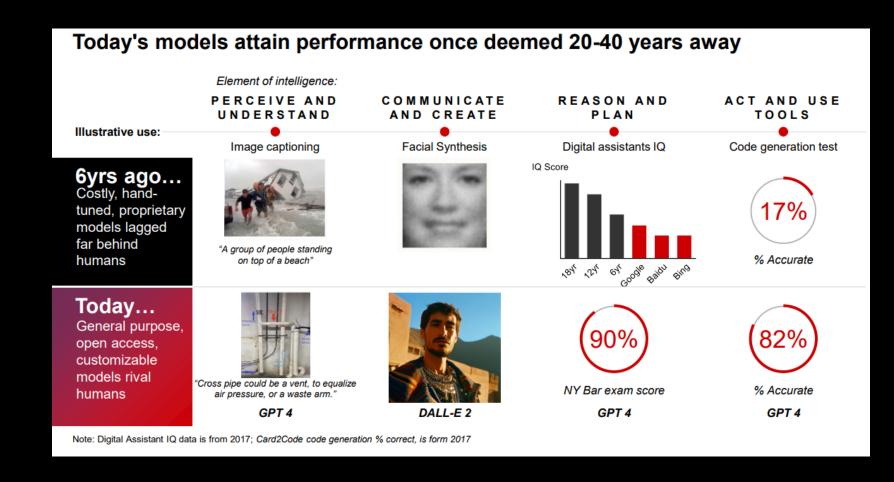
Automate tasks that would otherwise require human input, such as generating reports or responding to customer inquiries to save time or reduce the need for manual labour.



GEN AI REPRESENTS A BIG STEP CHANGE



Generative AI and the explosion of Large Language Models (LLMs) will disrupt the way we work, creating new opportunities.



STANDING ON THE SHOULDERS OF GIANTS

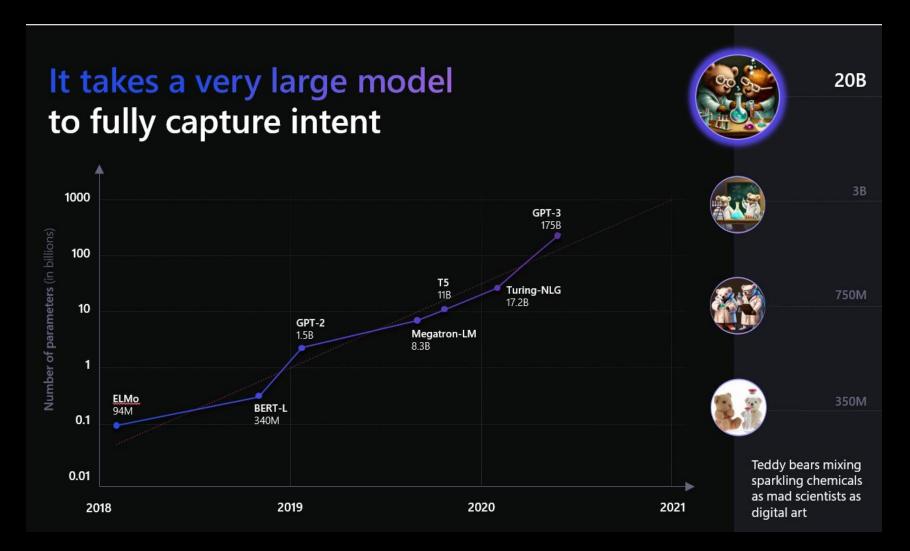


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Creating a good LLM takes a tremendous amount of data and processing power.

It is not our intent to create our own LLM or any other Foundational model to deal with voice or visual inputs.

Instead, we will use the LLMs that other companies create and then 'ground' them in Air NZ data to allow them to give good Air NZ answers, within a secure environment where we don't contribute our data to the LLM and retain our privacy.



HOW IS THIS LIKELY TO AFFECT YOU?



Do what you do, but faster – and do what you can't do, better





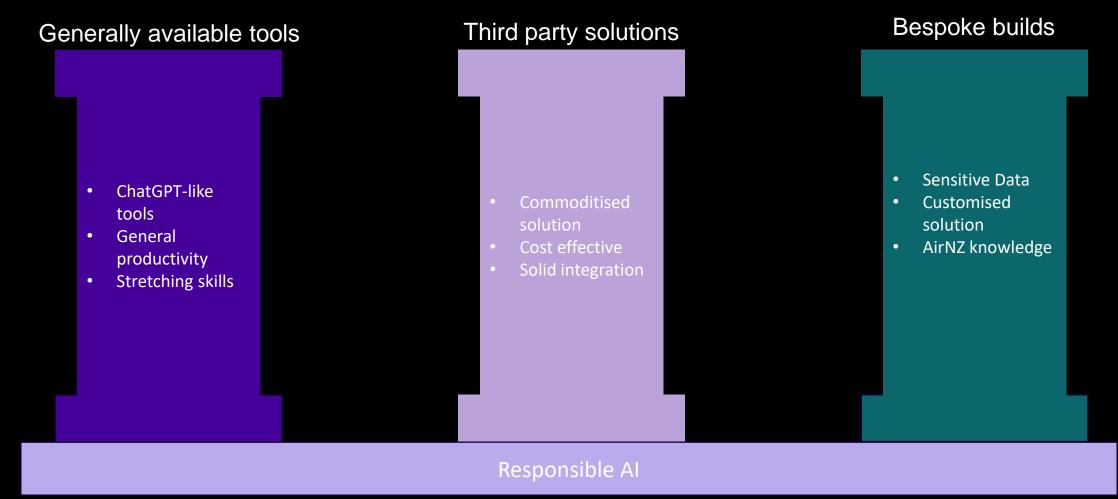
Here's the underwater-themed birthday invitation for a 5th birthday party, featuring mermaids and pirates in a modern animated style. This vibrant and colorful design captures the magical essence of an ψ erwater adventure, making it perfect for celebrating a special day.



I've created the image you requested, depicting an airplane flying through a giant toasted marshmallow, with the gooey center dramatically spraying everywhere.

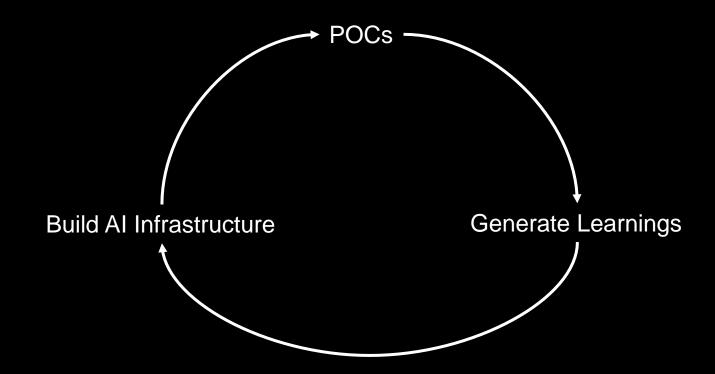
GENERATIVE ALAT AIR NZ





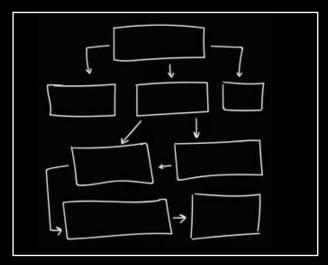
GENERATIVE ALAT AIR NZ



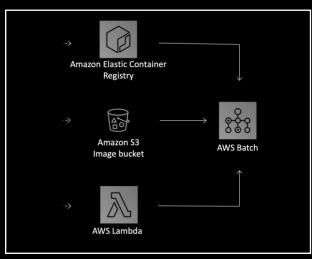


MAXIMISING VALUE FROM AI





Business process



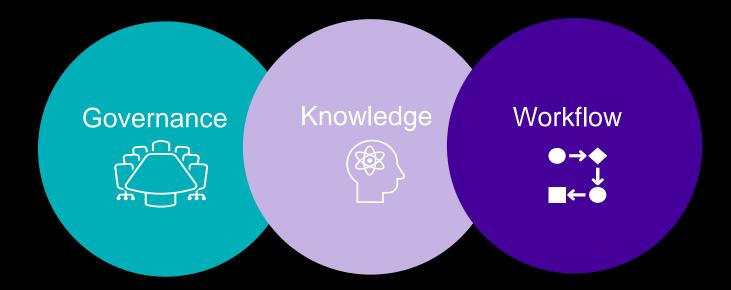
Architecture



Mathematics

MANAGING AI RISK





AIR NEW ZEALAND

Questions?