

# Artificial Intelligence (AI)

## “The good, the bad and the ugly”

*Ford's Colony Computer and Technology Club*

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# **DISCLAIMER:**

**THIS PRESENTATION HAS BEEN CREATED  
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# What is Artificial Intelligence (AI)?

AI is a branch of computer science that deals with the creation of intelligent agents, which are systems that can reason, learn and act autonomously.

AI is a rapidly growing field with a wide range of applications, including healthcare, transportation, and customer service.

NOTE: AI is still in the development stage and results need to be verified.

# History of AI

The field of AI was founded in the 1950s, but it did not make significant progress until the 1980s, when the development of new technologies, such as expert systems and neural networks, made it possible to create more sophisticated AI systems.

In recent years, there has been a renewed interest in AI, due in part to the development of deep learning, which has led to the creation of AI systems that can outperform humans at tasks such as image recognition and natural language processing.

# TYPES OF AI

AI can be broadly categorized into two main types:

# Definitions and Concepts: Machine Learning

Machine learning is a type of AI that allows systems to learn without being explicitly programmed.

Machine learning systems use algorithms to analyze data and identify patterns. These patterns can then be used to make predictions or decisions.

Large language models (LLMs) and natural language processing (NLP) are two types of AI algorithms that deal with human language. Because they have different focuses and goals, they are trained in different ways, but there may be some overlap in how they are used.

# Examples of Current Uses of AI

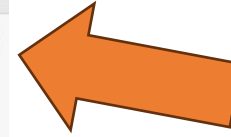
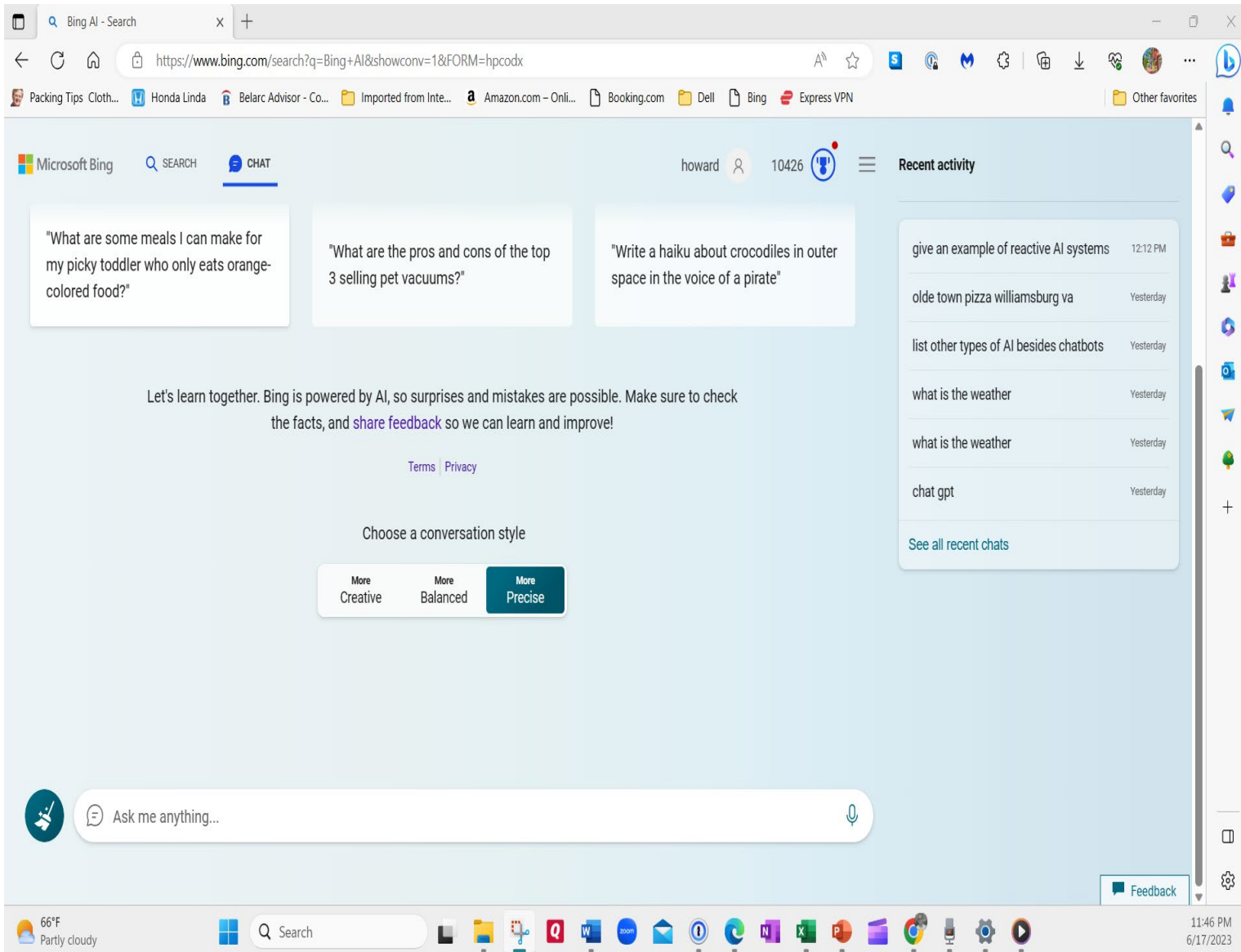
Machine Translation	translate text from one language to another
Voice Assistants	understand your voice commands and respond to them
Chatbots	answer customer questions, provide product information, and more
Spam filters	identify and filter out spam emails
Sentiment analysis	identify the sentiment of text, such as whether it is positive, negative or neutral

# Summary of key differences between search engines and AI chatbots

Feature	Search Engine	AI Chatbot
Purpose	Find information on the web	Interact with users in a natural way
Technique	Keyword matching, semantic analysis, machine learning	NLP, knowledge base, real-time data
Data	Vast amount of data from the web	Smaller knowledge base, access to web data
Interaction	One-time interactions	Multiple interactions



# Screenshot of Bing Chat



You need a Microsoft account to use Bing Chat.

From the Edge home page, go to the bubble in the upper right corner marked with a “b” to open Bing Chat.

# Screenshot of Google Bard

The screenshot displays the Google Bard interface in a browser. The address bar shows 'bard.google.com'. The main content area features a welcome message from Bard: 'I'm Bard, your creative and helpful collaborator. I have limitations and won't always get it right, but your feedback will help me improve.' Below this, it suggests starting with prompts like 'Tell me about the code within the google/jax GitHub repo', 'Give me some ideas to surprise my movie-loving friend on their birthday', and 'Advantages and disadvantages to consider before buying smart watches?'. At the bottom, there is a text input field with the placeholder 'Enter a prompt here' and a microphone icon. A small disclaimer at the very bottom states: 'Bard may display inaccurate or offensive information that doesn't represent Google's views.'

1. Open Google Search.
  2. Type "Bard" in the search bar.
  3. Click on the "Bard" link that appears.
- Sign in to Google account and start using Bard.

# The GOOD

AI has the potential to revolutionize many industries and improve lives in several ways. Some of the potential benefits of AI include:

# The BAD

Job Elimination - AI is already automating many jobs, and this trend is likely to continue. This could lead to widespread unemployment and social unrest.

Bias: AI systems can be biased if they are trained on data that is not representative of the real world. In other words, garbage in-garbage out.

Loss of privacy - AI systems can collect and analyze vast amounts of data about people, which could be used to invade their privacy.

Weaponization - AI could be used to develop autonomous weapons that could kill without human intervention. This could lead to a new arms race and an increase in violence.

# The UGLY

Authorities and experts want to ensure AI systems are designed to be safe and reliable and under human control. Current issues include:

# REFERENCES

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