

# Evaluation of Prompting Tools Across Diverse AI Platforms

## Aim:

To assess the effectiveness, usability, and response quality of various prompting tools across popular AI platforms—ChatGPT, Claude, Bard, Cohere Command, and Meta—in a specific use case (e.g., summarizing text or answering technical questions).

## Procedure:

### 1. Define the Use Case:

- Select a specific task for comparison across platforms, such as:
  - Summarizing a lengthy technical document
  - Answering complex technical questions
  - Generating creative content based on specific prompts

### 2. Design Standardized Prompts:

- Create a set of standardized prompts tailored to the selected use case. For example:
  - **Summarization Prompt:** “Summarize the following document about machine learning techniques.”
  - **Technical Q&A Prompt:** “Explain the concept of backpropagation in neural networks.”
  - **Creative Writing Prompt:** “Generate a short story about an AI robot in a futuristic city.”

### 3. Input Prompts into Each Platform:

- Input each standardized prompt into ChatGPT, Claude, Bard, Cohere Command, and Meta AI platforms.
- Record the responses generated by each platform.

### 4. Evaluate Response Quality:

- Assess the responses from each platform using criteria such as:
  - **Accuracy:** Correctness of information and adherence to prompt requirements.
  - **Clarity:** Ease of understanding and logical structure.
  - **Depth:** Completeness of the response, especially for technical explanations.
  - **Creativity:** (if applicable) Originality and engagement in responses for creative prompts.

- Rate each response on a scale from 1 to 5 based on these criteria.

## 5. Measure User Experience:

- Assess user experience aspects like:
  - **Response Speed:** Time taken to generate a response.
  - **Interface Usability:** Ease of use and intuitiveness of the platform's interface.
  - **Prompt Customization:** Ability to modify prompts easily or clarify questions.
  - **Interaction Features:** (e.g., follow-up questions, adaptive responses, or customization options).

## 6. Compare Consistency Across Multiple Queries:

- Test each platform's performance consistency by running multiple prompts within the same use case. Record any fluctuations in response quality, accuracy, or usability.

## Outcomes:

**Prompt: “Explain convolutional neural networks (CNNs) and their applications in image processing.”**

ChatGPT

Memory Full

Explain convolutional neural networks (CNNs) and their applications in image processing.

Convolutional Neural Networks (CNNs):

Convolutional Neural Networks (CNNs) are a type of deep learning model particularly effective for tasks involving image and video data. Unlike traditional neural networks, CNNs are specifically designed to recognize spatial hierarchies in images, making them exceptionally powerful for tasks like image classification, object detection, and segmentation.

**How CNNs Work:**

- Convolution Layer:**
  - The convolution layer is the core of a CNN. It applies filters (also known as kernels) across the image to detect patterns, such as edges, textures, and shapes.
  - Each filter slides over the image and performs a mathematical operation (convolution) that highlights specific features.
  - This layer captures local features, meaning each convolutional filter focuses on small regions of the image.
- Activation Function (usually ReLU):**

Message ChatGPT

ChatGPT can make mistakes. Check important info.

Claude

Claude does not have the ability to run the code it generates yet.

PA

Explain convolutional neural networks (CNNs) and their applications in image processing

I'll explain Convolutional Neural Networks (CNNs) and their role in image processing in a clear, structured way.

Understanding Convolutional Neural Networks (CNNs)  
Click to open document

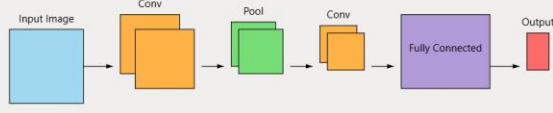
CNN Architecture Diagram  
Click to open image

I've provided a comprehensive explanation of CNNs along with a visual representation of their architecture. Would you like me to elaborate on any specific aspect of CNNs or provide more details about a particular application area?

Claude 3.5 Sonnet (New)

CNN Architecture Diagram

Preview Code



Last edited just now

Publish

Gemini

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See the latest updates to the Gemini Apps Privacy Hub

P

Explain convolutional neural networks (CNNs) and their applications in image processing.

Show drafts

Convolutional Neural Networks (CNNs): A Visual Guide

Convolutional Neural Networks (CNNs) are a type of artificial neural network specifically designed to process visual imagery. They're inspired by the structure and function of the human visual cortex. CNNs are the backbone of many image recognition and processing tasks, from facial recognition to medical image analysis.

How CNNs Work

A typical CNN consists of several layers:

1. Convolutional Layer:

- The core of a CNN.
- Applies filters (kernels) to the input image, sliding them across the image to extract features like edges, corners, and textures.

Ask Gemini

Gemini can make mistakes, so double-check it

cohere

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^ MOST RECENT (1)

Convolutional Neural Network...  
Convolutional Neural Networks (CNNs) ...

Convolutional Neural Networks (CNNs) and Their Applications in Image Processing

P

Explain convolutional neural networks (CNNs) and their applications in image processing.

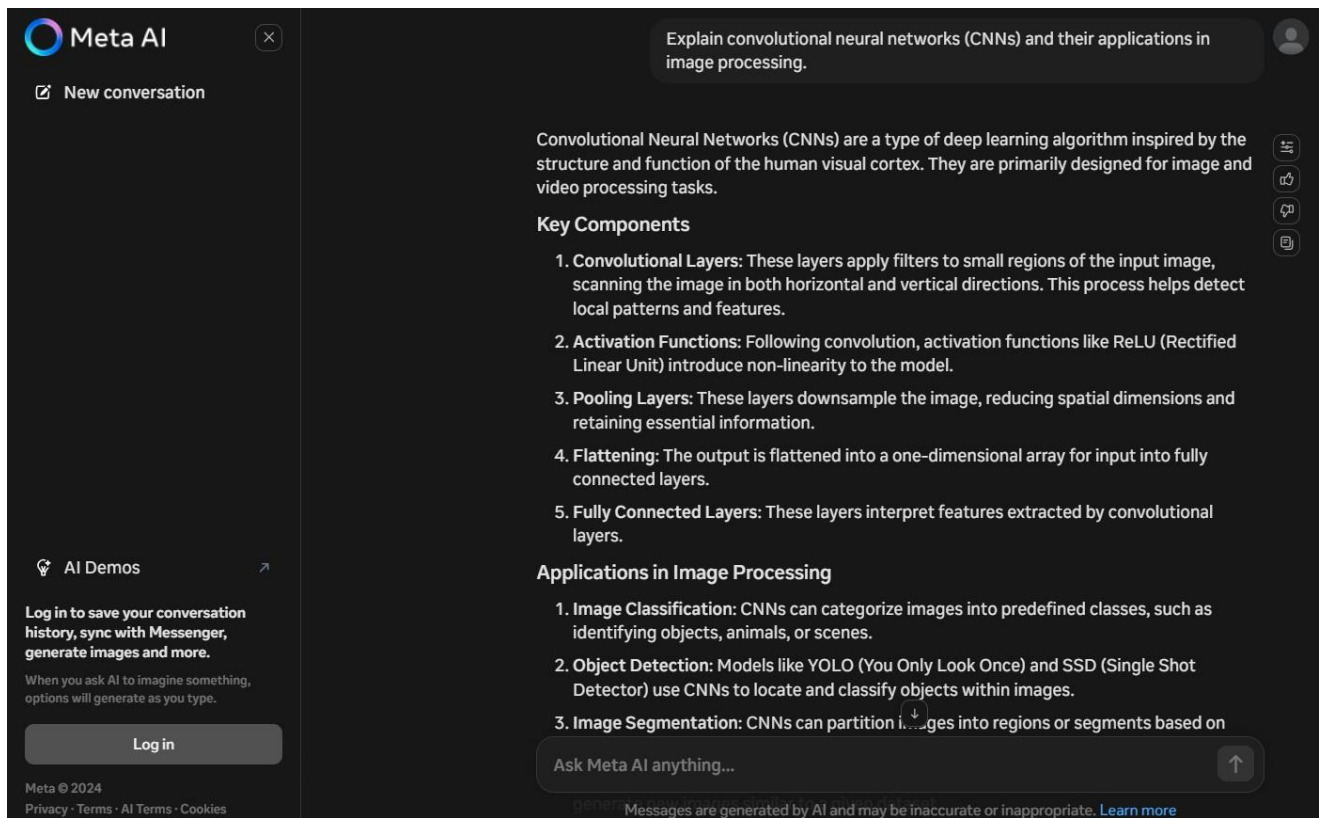
Convolutional Neural Networks (CNNs) are a class of artificial neural networks that have revolutionized the field of image processing and computer vision. They are designed to automatically learn and extract meaningful features from images, making them highly effective for various tasks such as image classification, object detection, image segmentation, and more. Here's an explanation of CNNs and their applications:

1. Convolutional Layers:

- CNNs get their name from the convolutional layers, which are the core building blocks of these networks. Convolutional layers apply a mathematical operation called convolution to the input image.
- In a convolution, a small set of weights called a "kernel" or "filter" is slid across the image, performing element-wise multiplication and summation with the image pixels. This process captures local patterns and features within the image.
- The output of the convolutional layer is a feature map that highlights specific patterns, such as edges, textures, or shapes, present in the input image.

2. Feature Extraction:

Message...



## Conclusion:

The comparison reveals strengths and weaknesses of each AI platform in the chosen use case. While some platforms excel in **accuracy and depth** for technical prompts (like ChatGPT and Claude), others may outperform in **creativity** for storytelling (e.g., Meta).

Factors like **interface usability** and **response customization options** also influence the user experience, with tools like Claude and Meta offering flexible prompt modifications, which can be beneficial for refining responses.

This evaluation provides a comprehensive understanding of each platform's capabilities and ideal use cases, guiding users in selecting the best tool based on specific needs, whether technical, creative, or interactive.