Generative AI

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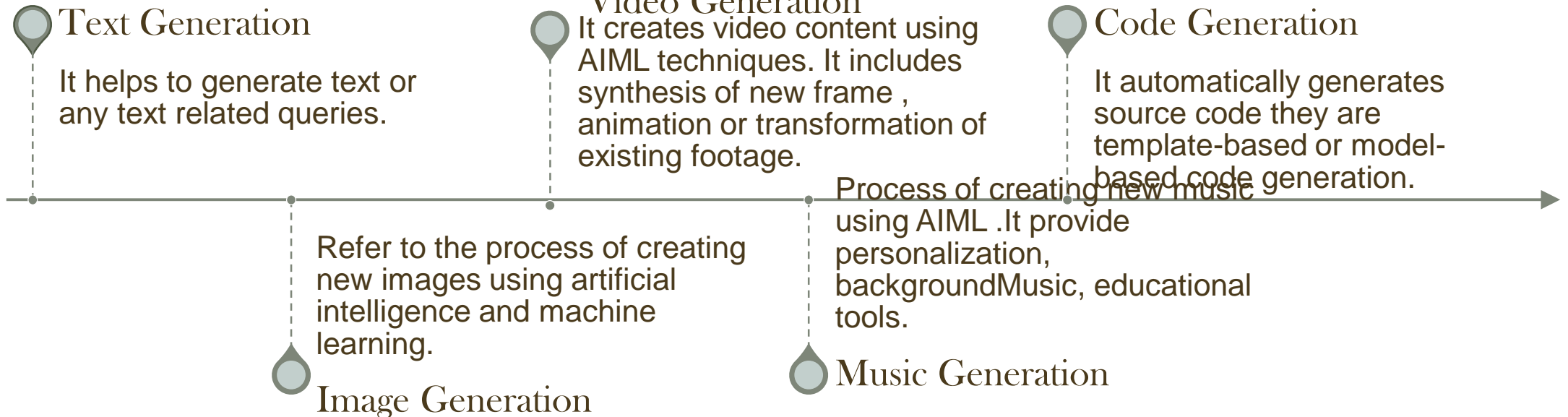**Submitted To : Mr. Devashish Sir**

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Introduction

Generative AI is a subset of AI leverages ML and DL techniques to generate data. It helps to create new content based on previous realistic data and includes text ,Images ,videos ,sound & music ,augmenting data, Drug discovery

GENERATIVE TYPES

Text Generation

It helps to generate text or any text related queries.

Video Generation
It creates video content using AIML techniques. It includes synthesis of new frame , animation or transformation of existing footage.

Code Generation

It automatically generates source code they are template-based or model-based code generation.

Refer to the process of creating new images using artificial intelligence and machine learning.

Process of creating new music using AIML .It provide personalization, backgroundMusic, educational tools.

Image Generation

Music Generation

Applications :

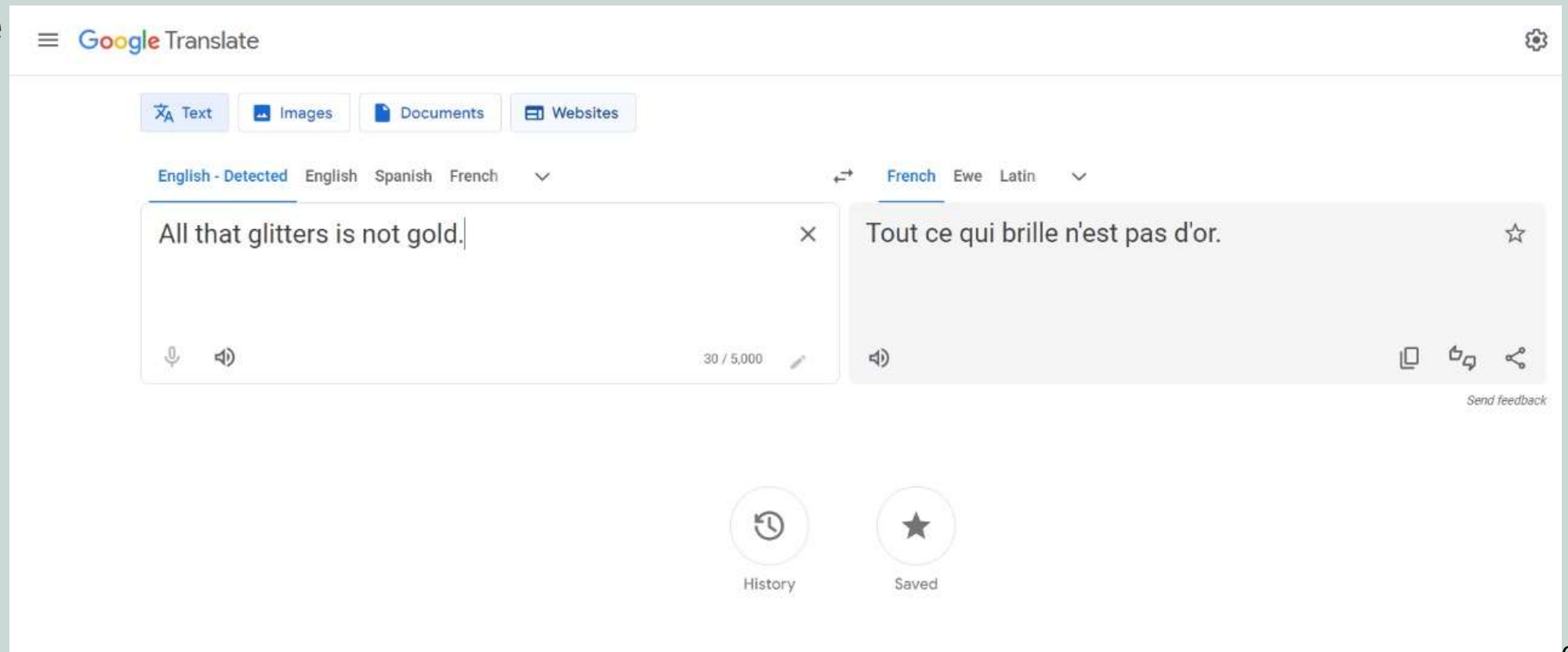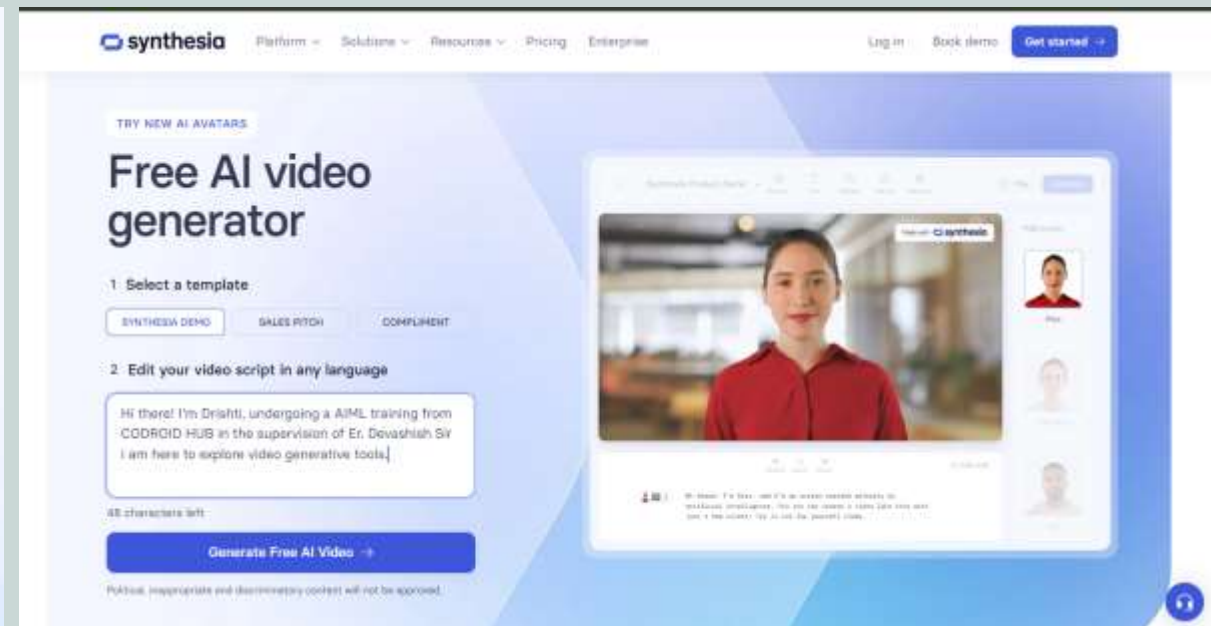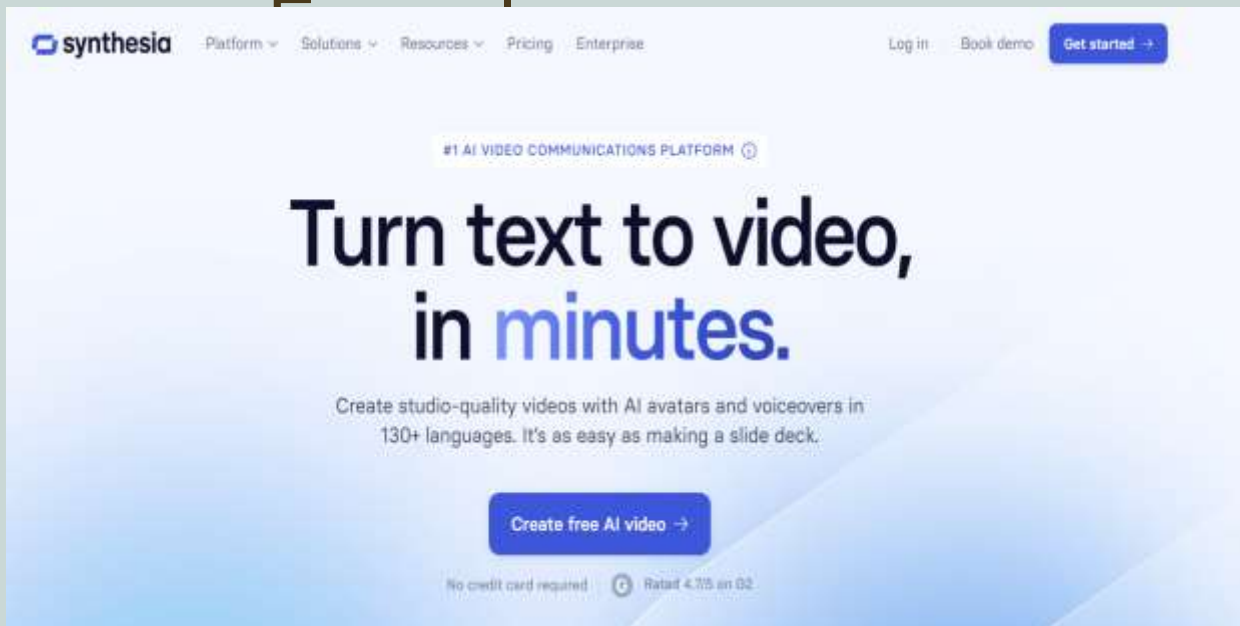| Text	Video	Image	Music	Code
1.1.Chat GPT 2.2.Google's Neural Machine Translation	1. Synthesia 2.VEED.io	1. Crasiyon 2. Google's Deep Dream 3. Bing	1. Magenta 2. AIVA	1. Github Copilot 2. Amazon Code Whisperer

Google's Neural Machine Translation

- It generates text in different languages using artificial intelligence and machine learning. It is powered by google
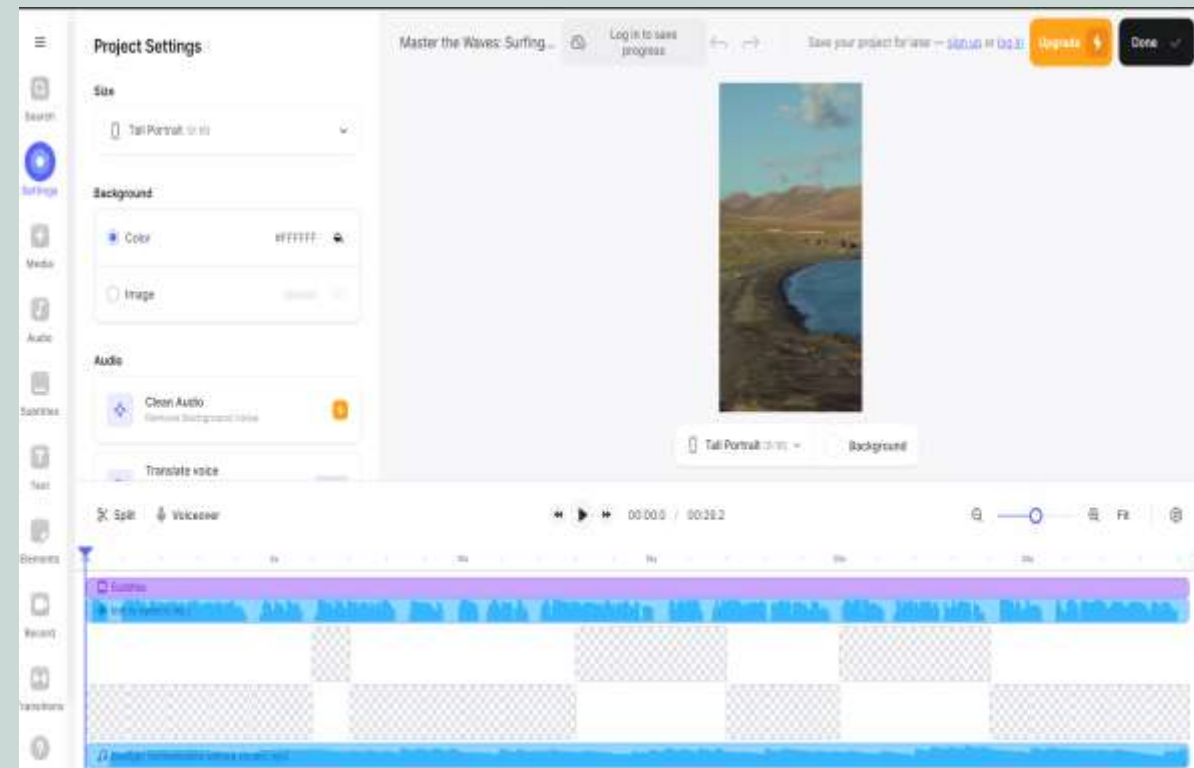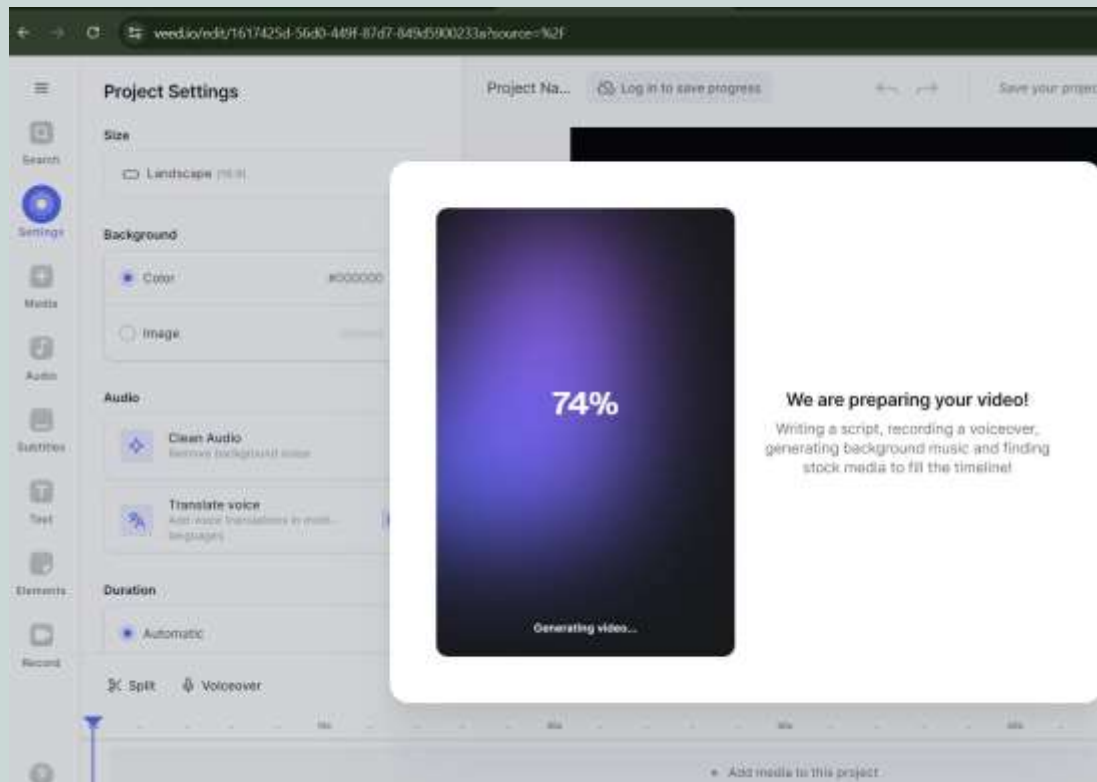
- Example

Synthesia

- Provide wide range of video content reducing time, cost, complexity. It includes personalized avatars and voiceover without needing traditional video production tools.
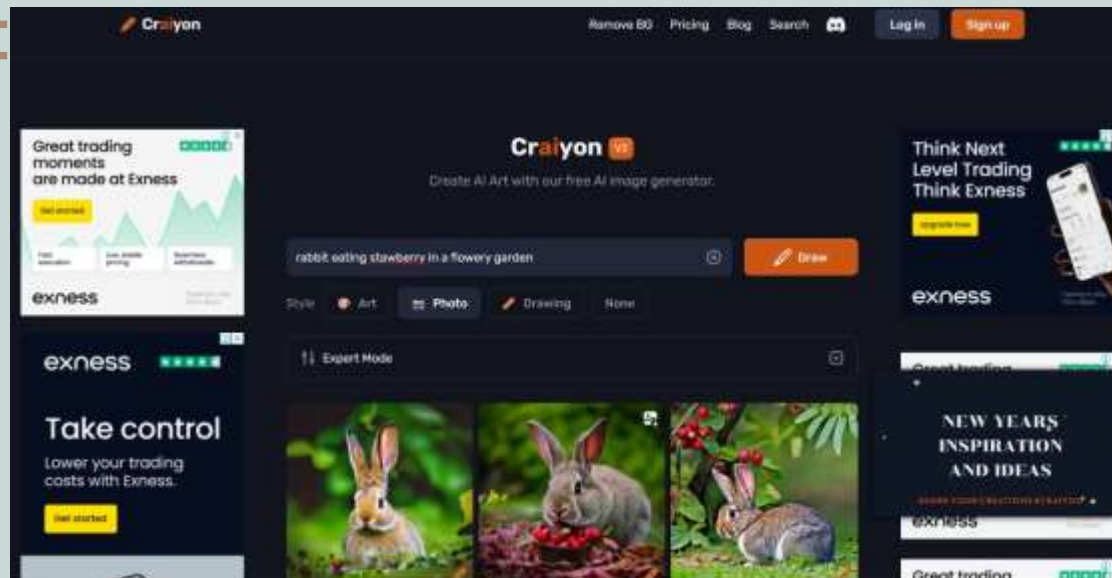
VEED.io

- It is a video editing tool that allows user to create, edit and share videos with ease. It offers features like automatic subtitles, video trimming, adding text and animations, and converting audio to text.

- Example :

Crasiyon

- Generate images using textual description or detailed images based on input prompts.

- Steps :

- Creating realistic images with AI starts with, you guessed it right... the prompts.

- You're going to learn our best hacks to turn your words in to super realistic images.

- Here are some friendly tips when making photorealistic AI images.
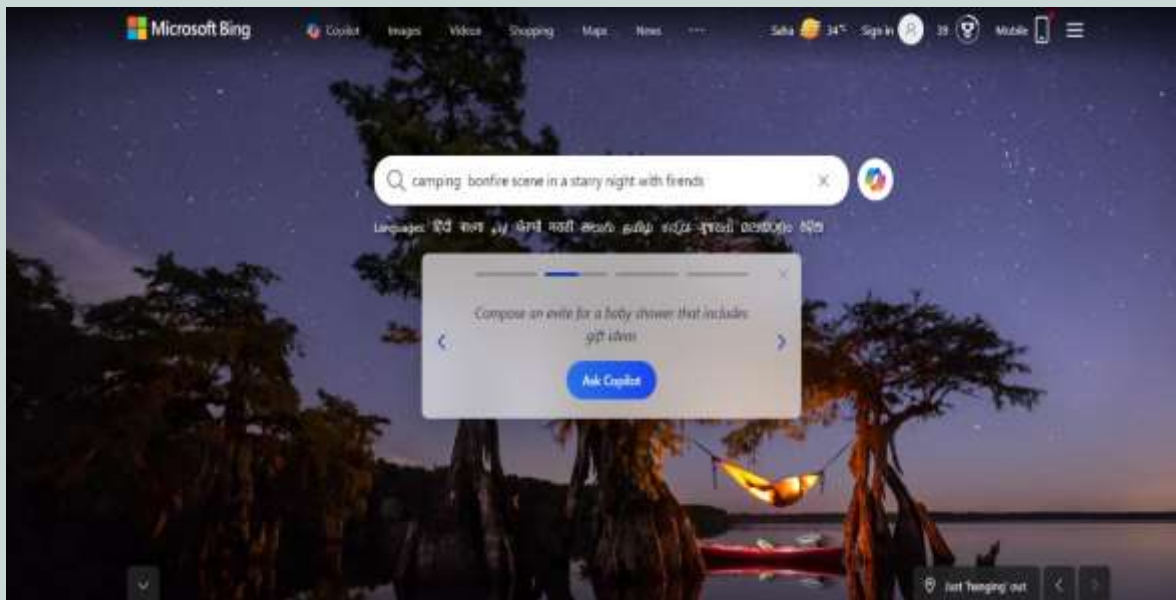
- Example :

Google's Deep Dream

- It is a computer vision program uses deep learning to find and enhance the pattern in images via algorithm thus, creates dream like appearance

- Example :

Bing

- It is a Microsoft search engine you can use it for web search, image search , news and much more.
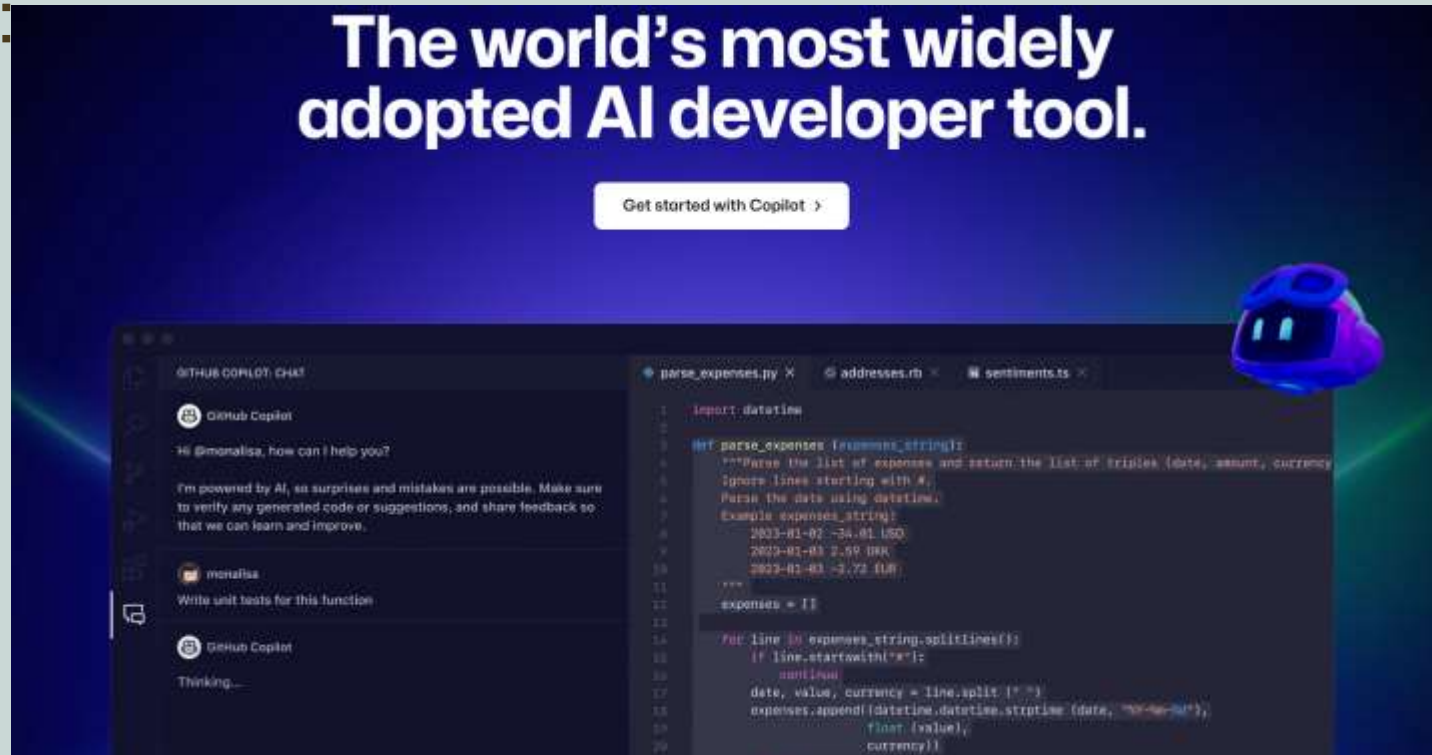
- Example :

Magenta

- It is a google research project and it provide ML models and tools to assist artists, musicians, and creating new forms of art and music.

- Example

Github Copilot

- It is a AI powered code completion tool it assist developers in writing code faster and more efficiently.
- Example :

LINKS :

CHAT GPT	Open AI chat GPT
Google's Neural Machine Translator	Translate.goole.com
Synthesia	Synthesia.io
VEED.io	VEED.io
Craiyon	Craiyon.ai / craiyon.com
Google's Deep Dream	Deep dream generator
Bing	Bing.com
Magenta	Magenta.tensorflow.com
AIVA	aiva.ai
Github Copilot	Copilot.github.com
Amazon Code Whisperer	Amazon Code Whisperer / https://docs.aws.amazon.com

Thank you