MET CS688
Web Analytics and Mining

Zlatko Vasilkoski

AI Tools

AI

- Generative AI is the most hyped thing in the last year or so.

- With the release of ChatGPT, everything changed significantly and AI became the talking point of every business.

- The AI hype cycle is not a new phenomenon and it is not even limited to AI. We have seen this type of phenomenon with a lot of emerging technology.

Hype Cycle for Artificial Intelligence, 2023

Introduction to the top 25 generative AI tools for September 2024

- Generative AI tools have revolutionized how we interact with technology, creating opportunities for innovation across various domains.

- These tools leverage advanced algorithms to generate human-like text, images, and more.

- This presentation summarizes some of the current (September 2024) generative AI tools, offering a details of each to help you understand their capabilities and applications.
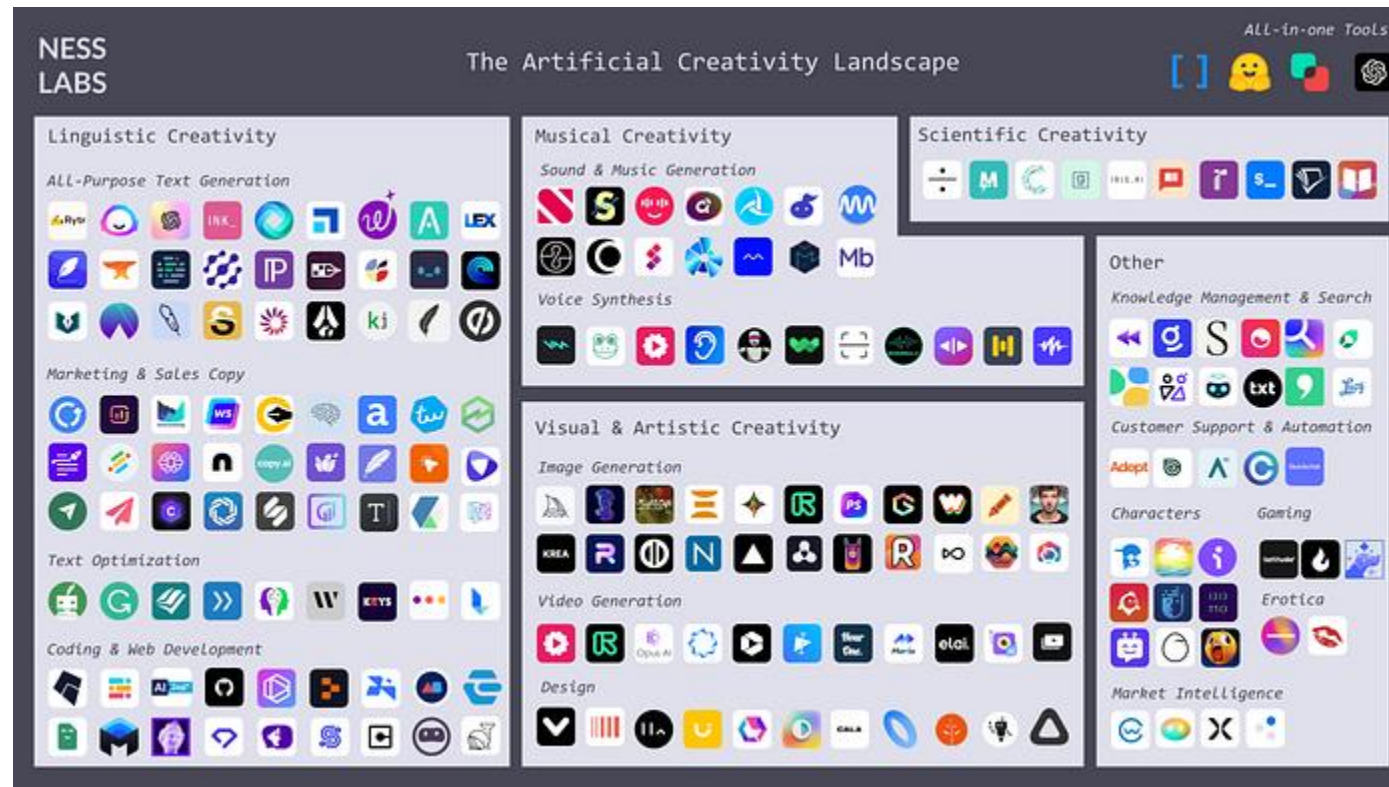
ChatGPT by OpenAI

- Advanced AI model for natural language processing
  - ChatGPT is a benchmark in natural language processing, generating human-like text based on input prompts.
  - It's ideal for applications including customer support, content generation, and interactive dialogue systems.
  - ChatGPT's underlying architecture, GPT (Generative Pre-trained Transformer), has been fine-tuned with vast amounts of data, enabling it to understand context, produce coherent responses, and even mimic different writing styles.
  - This flexibility makes ChatGPT invaluable for businesses looking to automate customer service, develop conversational AI, or enhance user engagement through natural language interfaces.
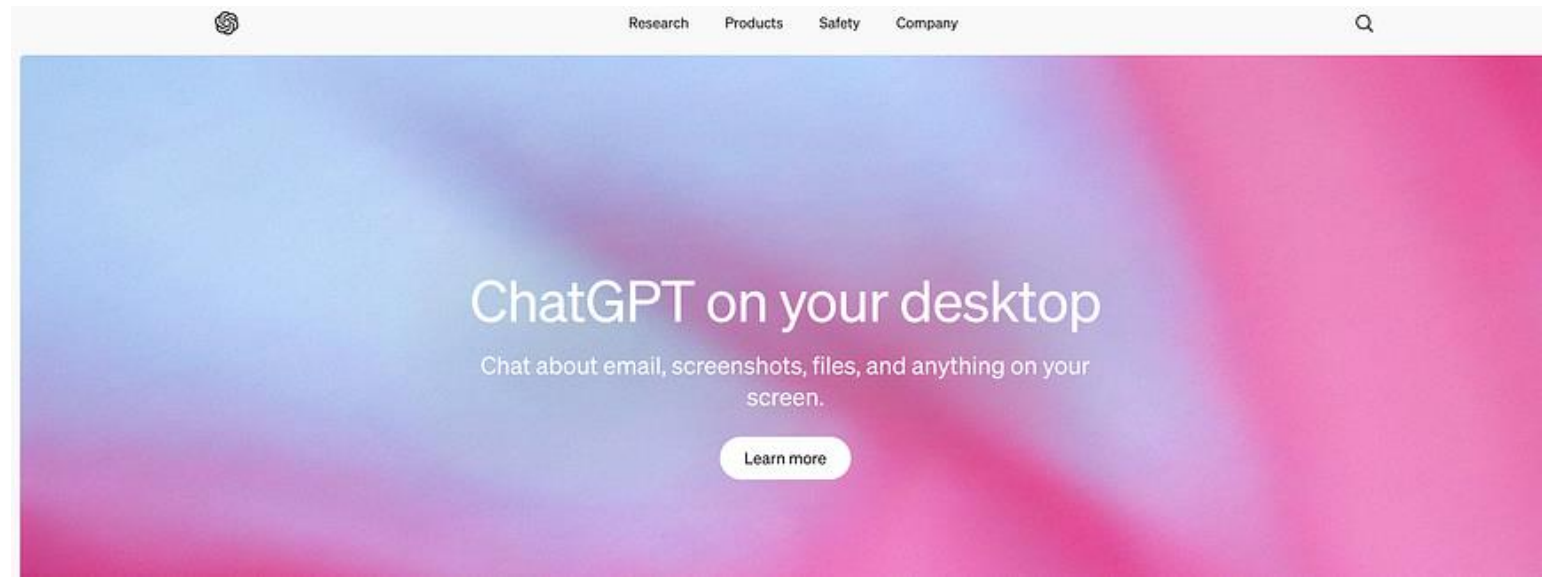
Gemini by Google

- Advanced AI platform for generative capabilities
  - Gemini is an advanced AI platform that offers a wide range of generative capabilities, from text generation to data analysis.
  - It's particularly effective in generating insights from large datasets, automating content creation, and enhancing decision-making processes.
  - With its ability to integrate seamlessly with other Google services, Gemini is an invaluable tool for enterprises looking to leverage AI for business intelligence, marketing, and content strategy.
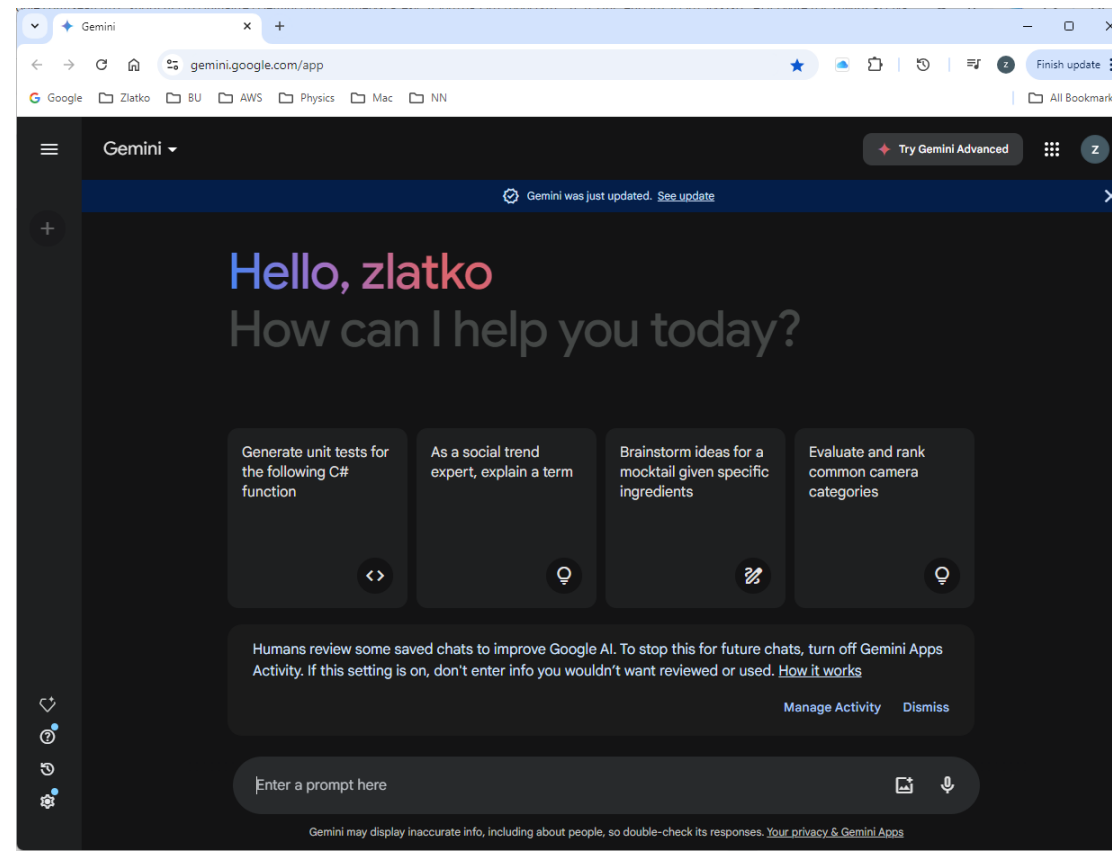
GitHub Copilot

- AI-powered coding assistant
  - GitHub Copilot is a revolutionary tool that assists developers by suggesting code snippets and completions directly within their Integrated Development Environment (IDE).
  - It understands the context of the code being written and provides real-time suggestions that help accelerate development.
  - GitHub Copilot supports multiple programming languages and can generate code that adheres to best practices, reducing the need for repetitive tasks and boilerplate code.
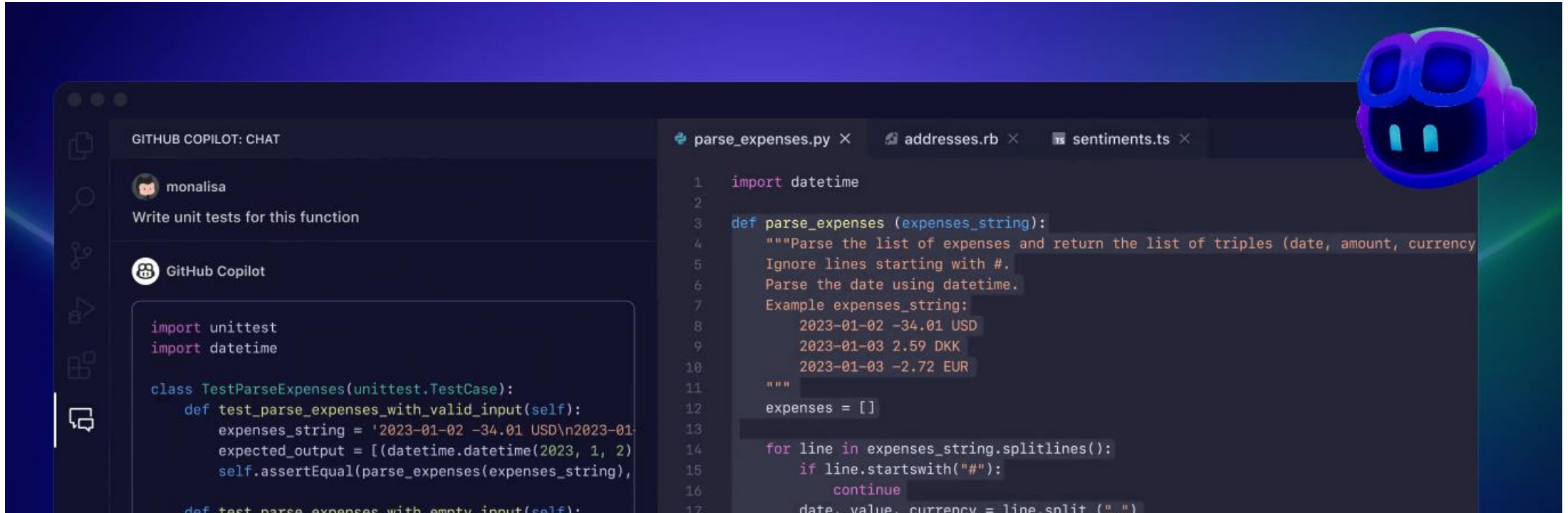
AlphaCode by DeepMind

- AI tool for programming tasks
    - AlphaCode is a cutting-edge AI tool specifically designed to assist in programming tasks.
    - It understands the context of coding problems and can generate high-quality code solutions that are both efficient and scalable.
    - AlphaCode leverages a deep learning model trained on a diverse set of coding challenges, making it a go-to tool for both novice and experienced developers.
    - The tool can significantly reduce development time and improve code accuracy, making it a valuable asset in the software development lifecycle.
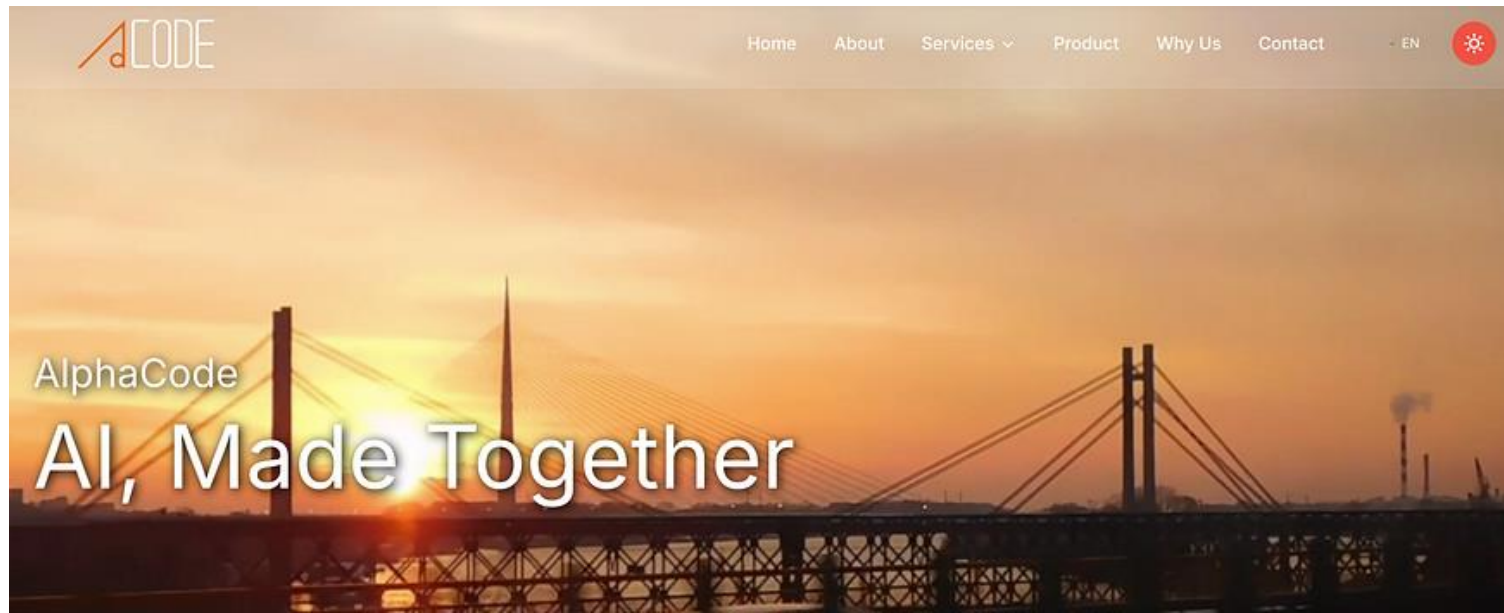
Ghostwriter by Replit

- AI-powered tool for coding assistance
  - Ghostwriter by Replit is an AI-powered tool designed to assist developers in writing code.
  - It provides intelligent code completions, suggestions, and error detection directly within the coding environment.
  - Ghostwriter supports multiple programming languages and is particularly useful for debugging, learning new coding languages, and automating repetitive coding tasks.

ScribeAI

- AI-powered documentation tool
  - ScribeAI revolutionizes the documentation process by using AI to automate the creation of detailed and accurate records.
  - It's particularly beneficial for industries where documentation is crucial, such as healthcare, legal, and finance.
  - ScribeAI can interpret and organize information from various sources, creating comprehensive documents that adhere to industry standards.
  - ScribeAI also reduces the risk of human error in documentation, making it a vital tool for organizations that require meticulous record-keeping.
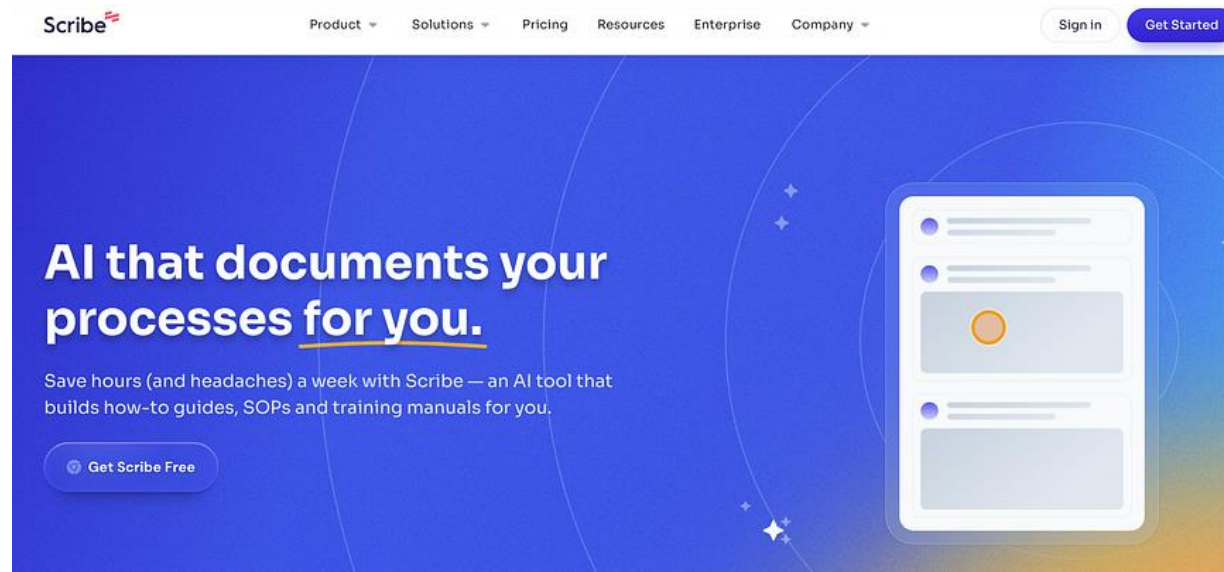
Bardeen

- Productivity-focused AI tool for automating tasks
  - Bardeen is a productivity-focused AI tool that automates repetitive tasks and generates content to streamline workflows.
  - It's designed to handle tasks such as drafting emails, filling out forms, and generating documents, allowing users to focus on more strategic activities.
  - Bardeen integrates with popular productivity tools and platforms, making it easy to incorporate into existing workflows.

Anyword

- AI-driven copywriting tool
   - Anyword is an AI-driven copywriting tool that specializes in generating marketing content designed to maximize engagement and conversion rates.
    - It analyzes existing content, audience data, and performance metrics to create persuasive copy tailored to specific goals.
    - Anyword ensures that every piece of content is aligned with the intended audience's preferences and behaviors, making it a powerful tool in any marketer's arsenal.
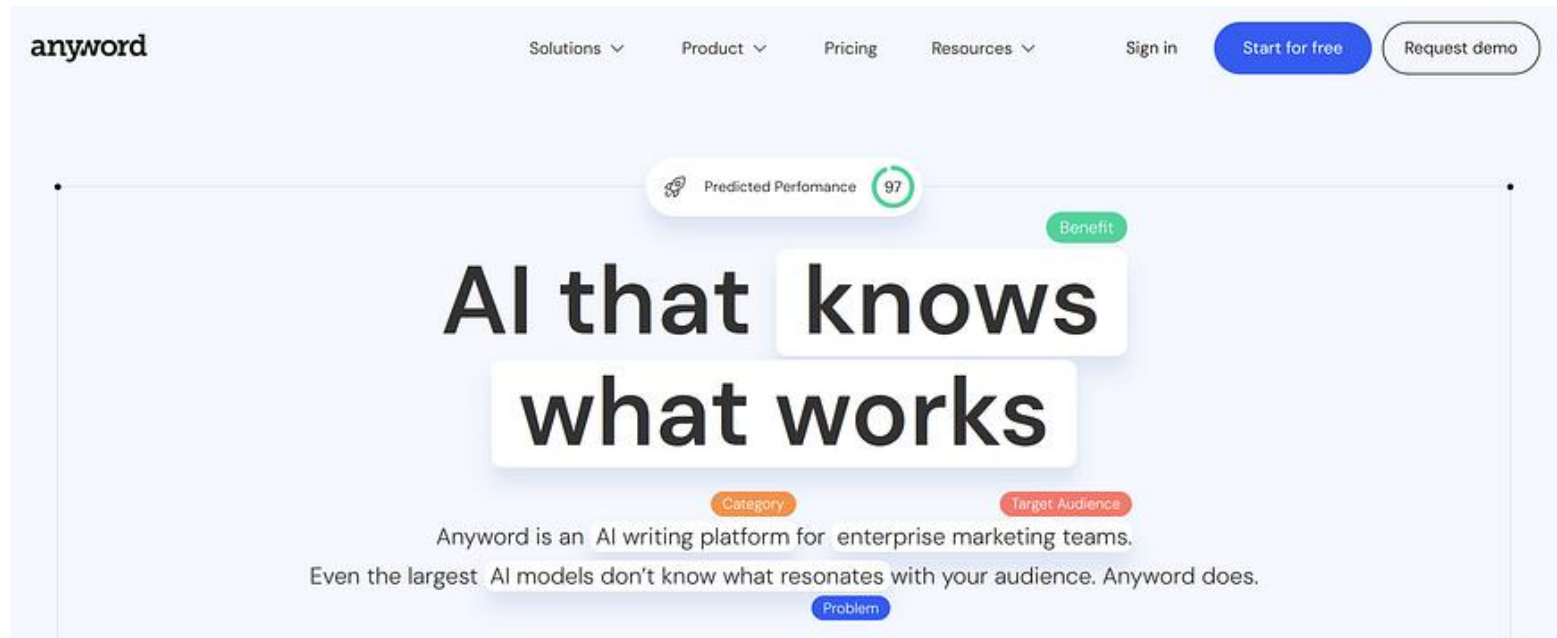
Jasper AI

- Powerful content generation tool
  - Jasper AI is a powerful content generation tool that leverages AI to help users create high-quality written content quickly and efficiently.
  - It can generate blog posts, marketing copy, social media content, and more, all tailored to the user's specific needs.
  - Jasper AI uses machine learning algorithms trained on a vast corpus of text, enabling it to understand context, tone, and style, and produce content that aligns with the user's brand voice.
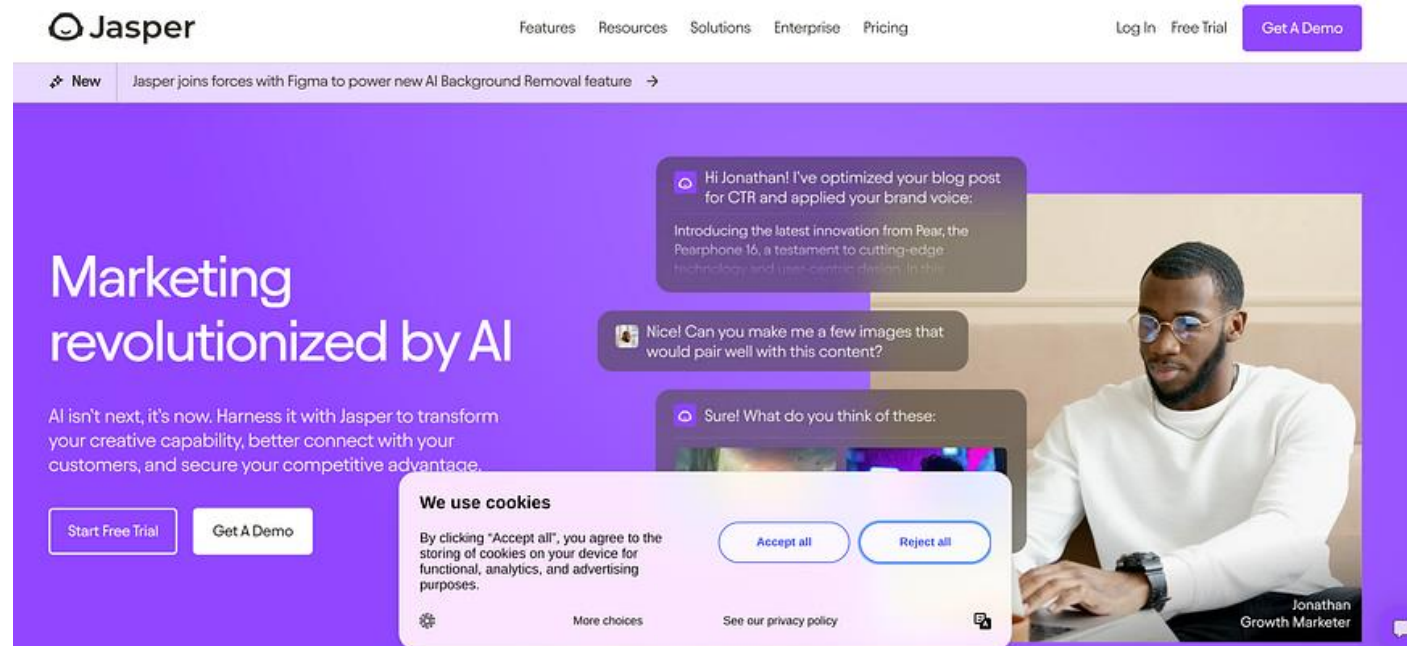
Zeg.ai

- Creative AI tool for visual content generation
    - Zeg.ai is a creative AI tool designed to assist in the generation of visual content, such as images and animations.
    - It's particularly popular among designers and marketers who need to create engaging visual content quickly.
    - Zeg.ai's AI models are trained on a wide variety of visual data, allowing it to generate content that aligns with current design trends and aesthetic standards.
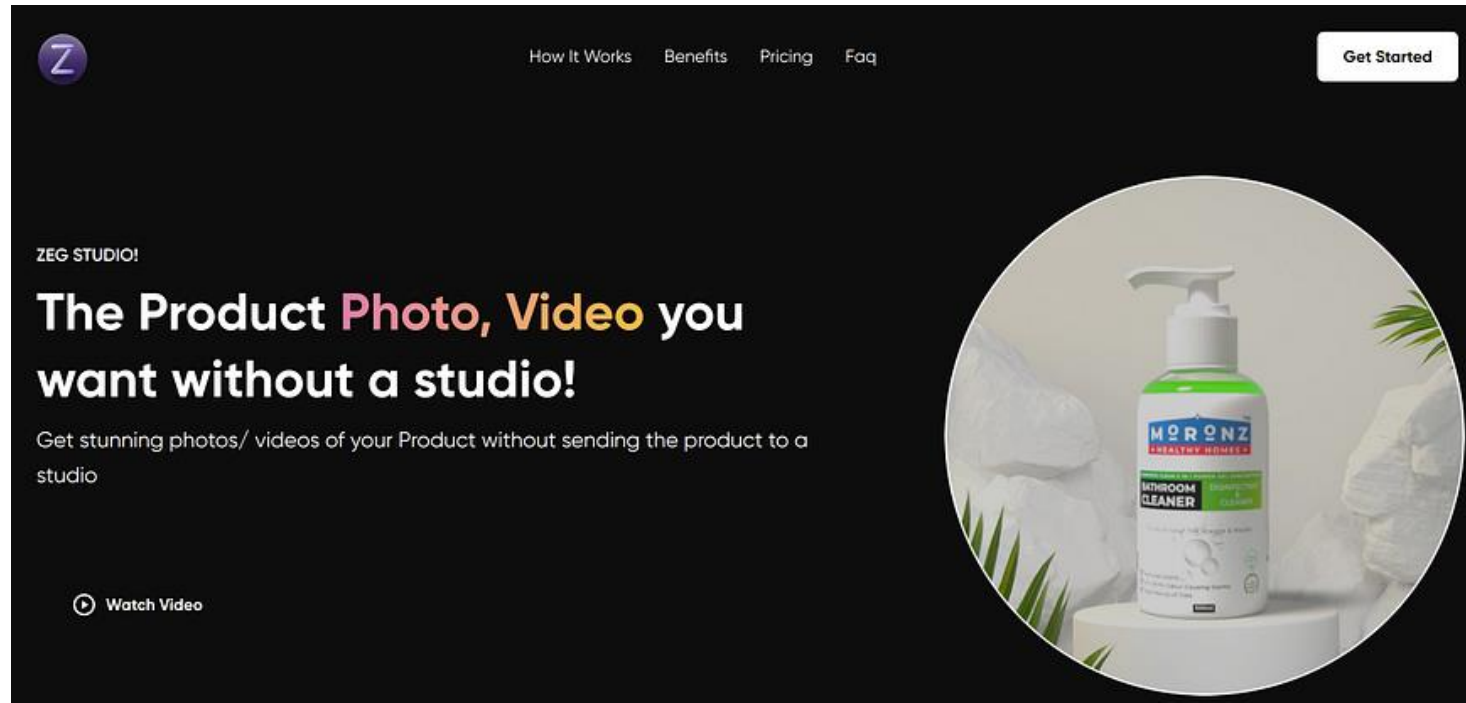
Kaiber AI

- Innovative tool for video generation
    - Kaiber AI is an innovative tool for video generation, offering users the ability to create high-quality video content using AI.
    - It's particularly useful for marketers, content creators, and educators who need to produce video content quickly and efficiently.
    - Kaiber AI's algorithms can generate videos based on simple inputs, such as text or images, making it easy to create engaging and visually appealing content without the need for advanced video editing skills.
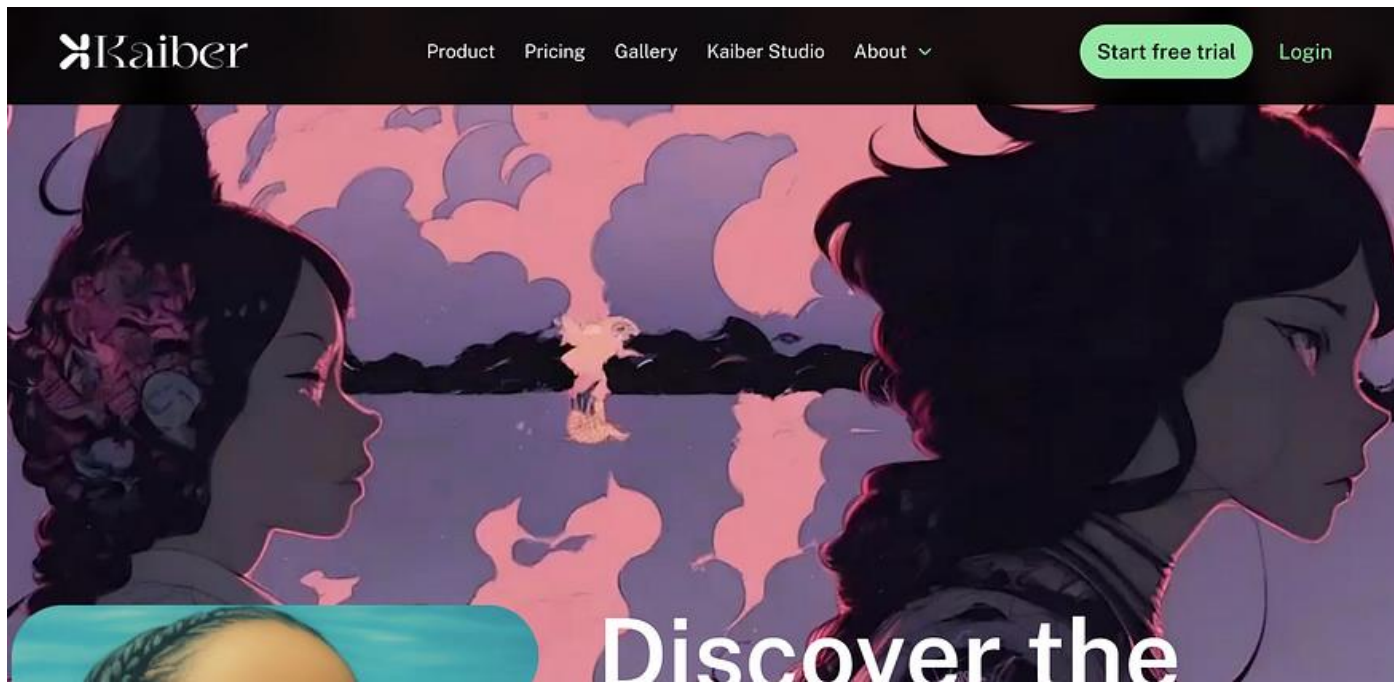
Lumen5

- Video creation platform using AI
  - Lumen5 is a video creation platform that uses AI to transform text-based content into engaging video presentations.
  - It's designed for marketers, educators, and content creators who want to repurpose written content into videos that can be shared on social media, websites, or other digital platforms.
  - Lumen5's AI analyzes the text, identifies key points, and automatically generates a video with relevant images, animations, and transitions.
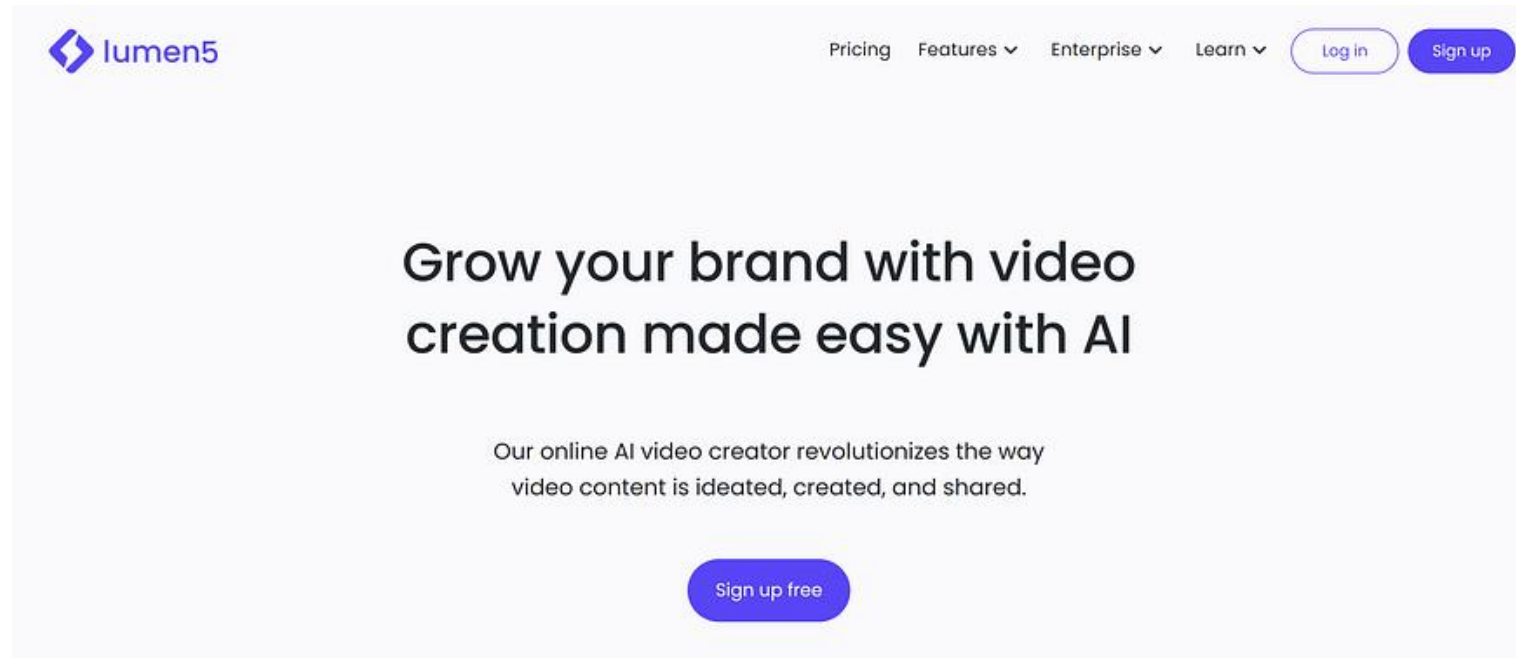
Veed.io

- Comprehensive video editing platform with AI
  - Veed.io is a comprehensive video editing platform that incorporates AI to simplify the video production process.
  - It offers tools for editing, subtitling, and creating video content, all accessible through an intuitive user interface.
  - Veed.io's AI features include automatic transcription, video resizing, and content analysis, making it easier for users to produce polished videos with minimal effort.
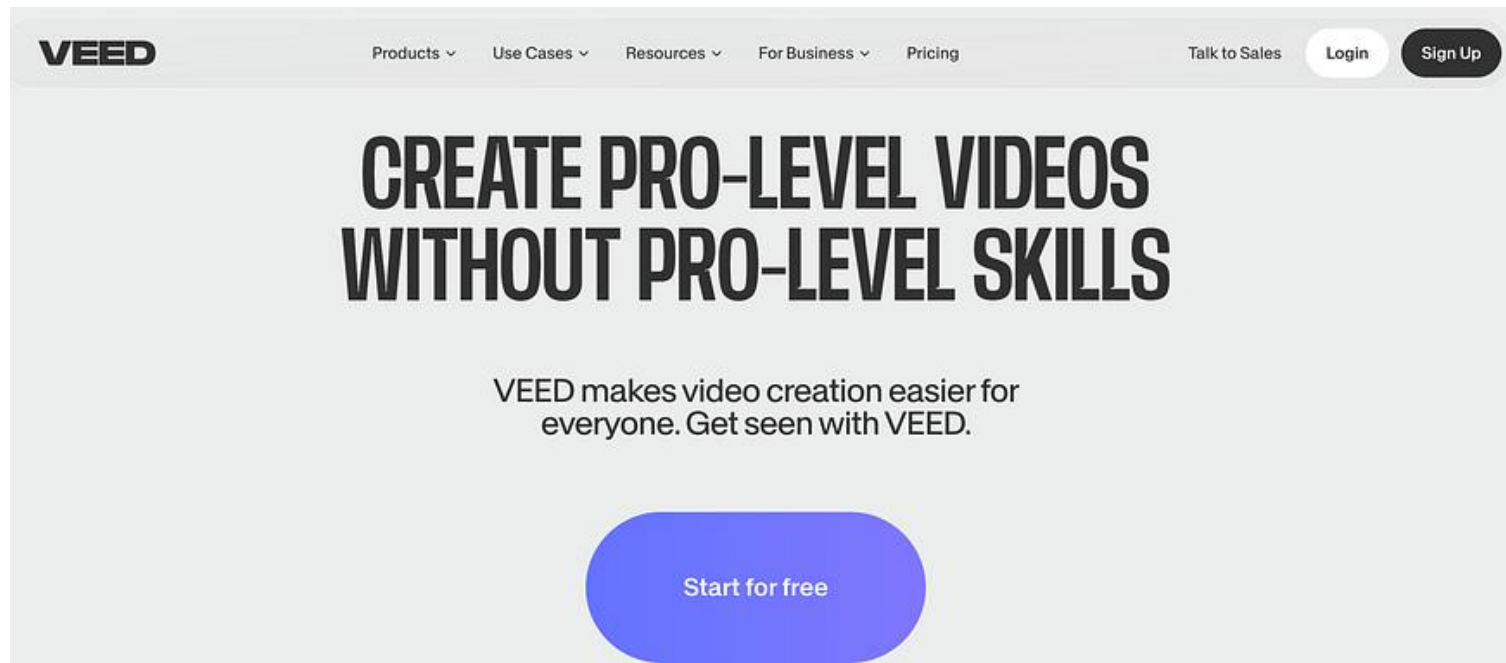
Leonardo.ai

- AI-generated art and design tool
  - Leonardo.ai is a cutting-edge tool that specializes in AI-generated art and design.
  - It allows users to create unique visual content, such as digital paintings, illustrations, and graphic designs, using AI algorithms that are trained on a vast dataset of artistic styles and techniques.
  - Leonardo.ai is particularly useful for artists, designers, and marketers who want to explore new creative possibilities without the constraints of traditional design tools.
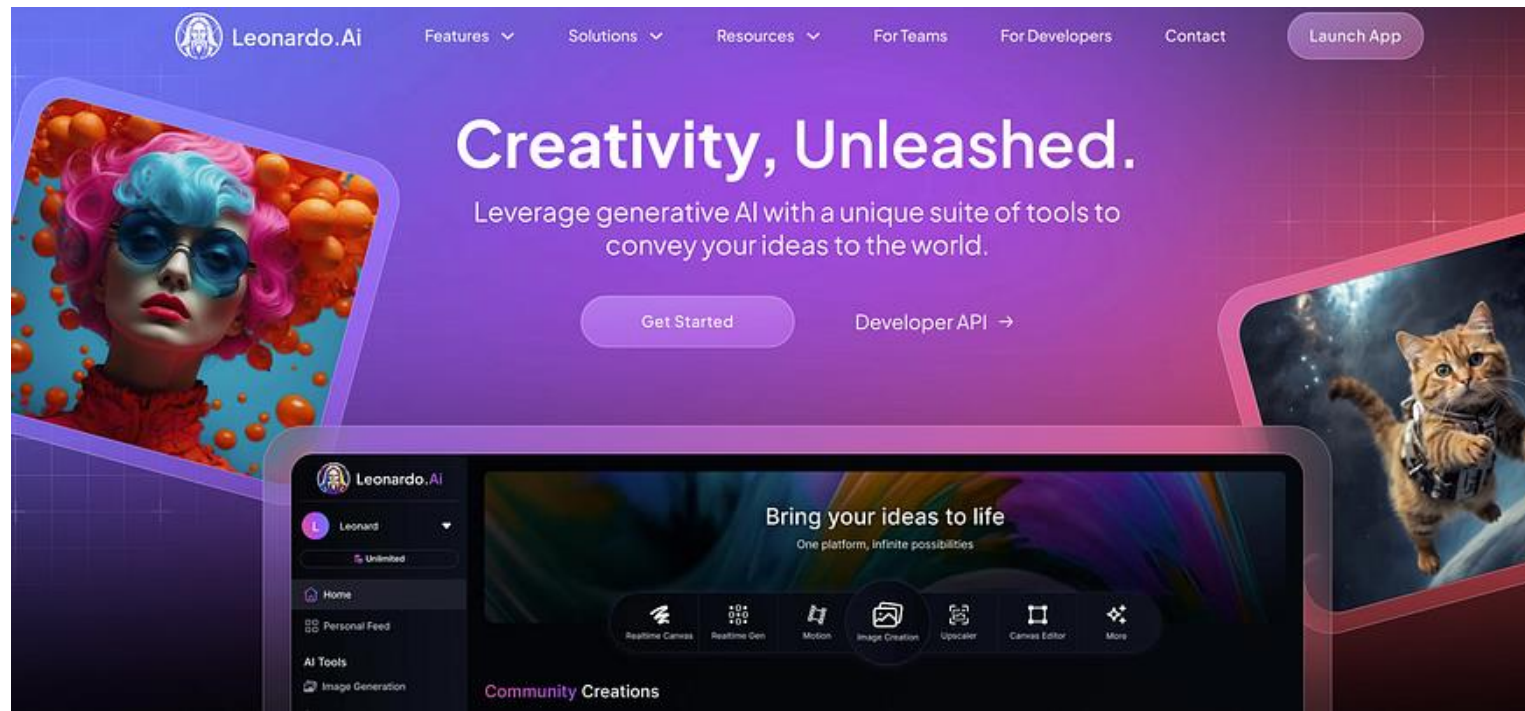
Shortwave

- AI-powered tool for concise content generation
  - Shortwave is an AI-powered tool designed for generating concise and impactful content across various digital platforms.
  - It specializes in creating short-form content such as social media posts, headlines, and summaries.
  - Shortwave's AI algorithms are tuned to understand the nuances of brevity and clarity, ensuring that every piece of content it generates is both engaging and informative.
  - This tool is particularly useful for businesses and individuals who need to communicate effectively in limited space, such as on Twitter, LinkedIn, or in email newsletters.
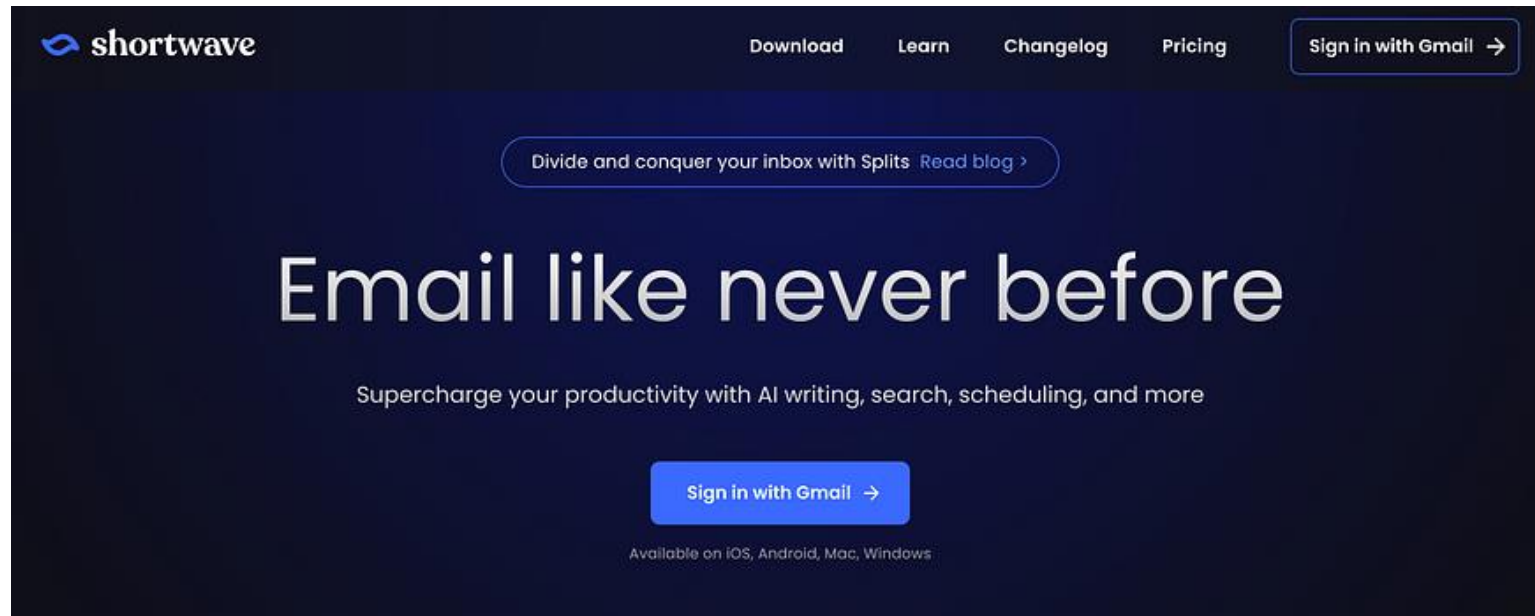
Claude AI

- Advanced natural language generation tool
  - Claude AI is designed to enhance content creation and communication through advanced natural language generation.
  - It provides tools for generating high-quality written materials, such as articles, reports, and marketing content.
  - Claude AI's sophisticated language models ensure that the text it produces is clear, engaging, and tailored to the target audience.
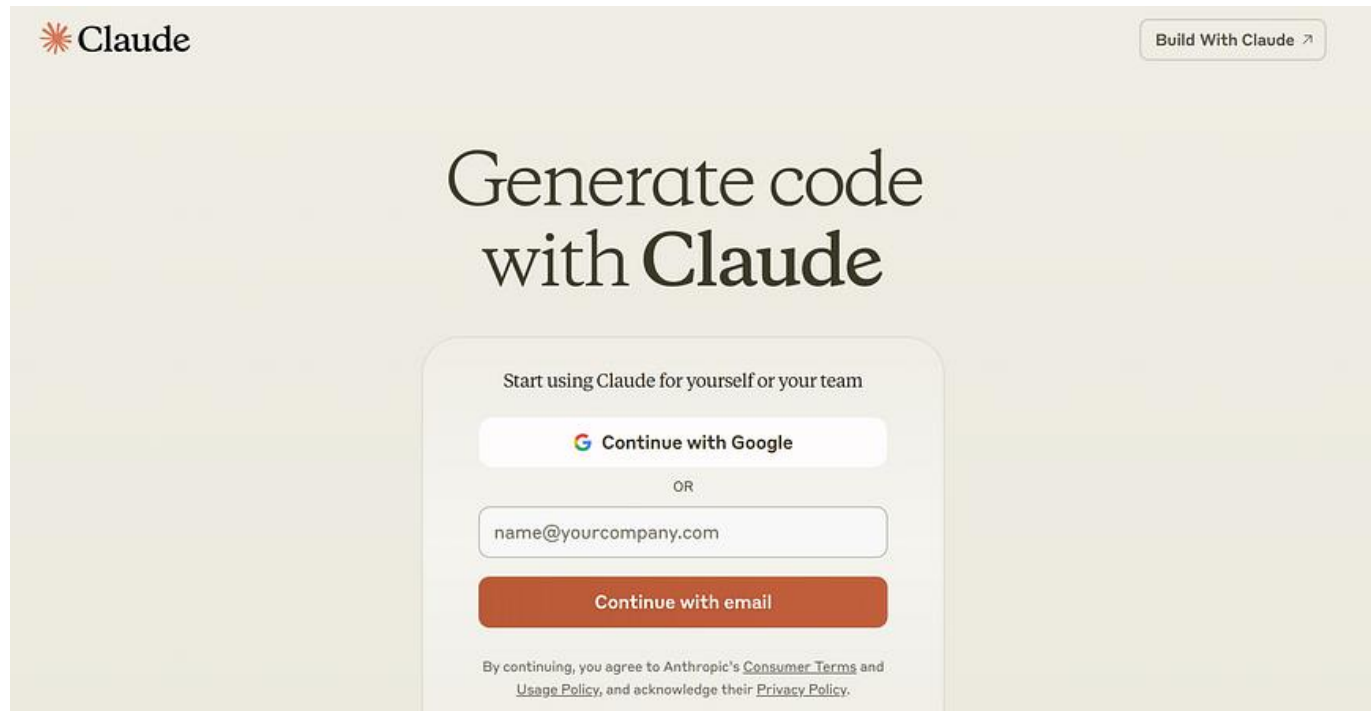
Cohere

- AI tools for natural language processing and generation
    - Cohere offers a suite of AI tools focused on natural language processing and generation.
    - It excels in creating human-like text for a variety of applications, including chatbots, virtual assistants, and content automation.
    - Cohere's AI models are trained to understand complex language tasks, such as answering questions, summarizing text, and generating dialogue.
    - This makes it an ideal solution for companies looking to enhance their customer service, automate content creation, or build intelligent conversational agents that can interact naturally with users.
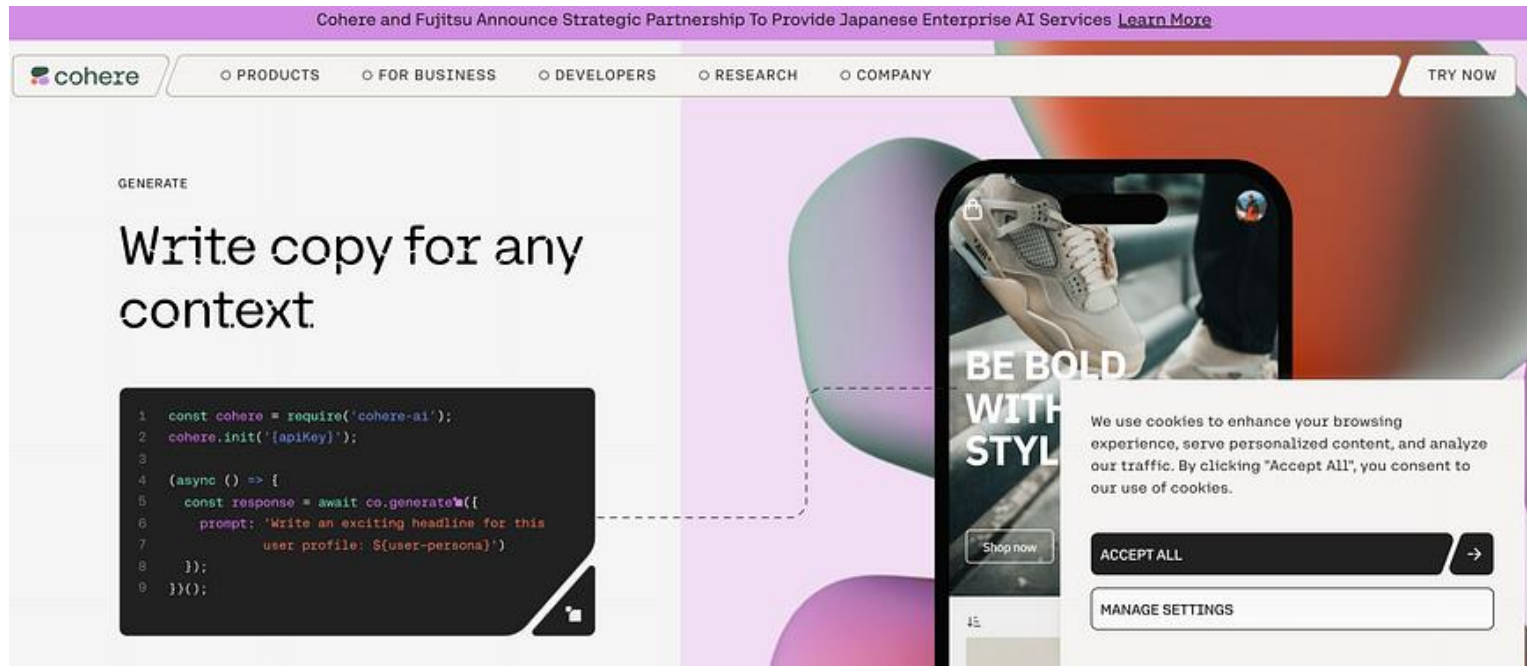
Eleven Labs

- Language models for generating, summarizing, and translating text
  - Eleven Labs specializes in language models that can generate, summarize, and translate text with high accuracy.
  - It offers powerful tools for businesses and individuals who need to create written content quickly and effectively.
  - Eleven Labs' AI models are trained on diverse datasets, enabling them to understand and generate text across different domains and industries.
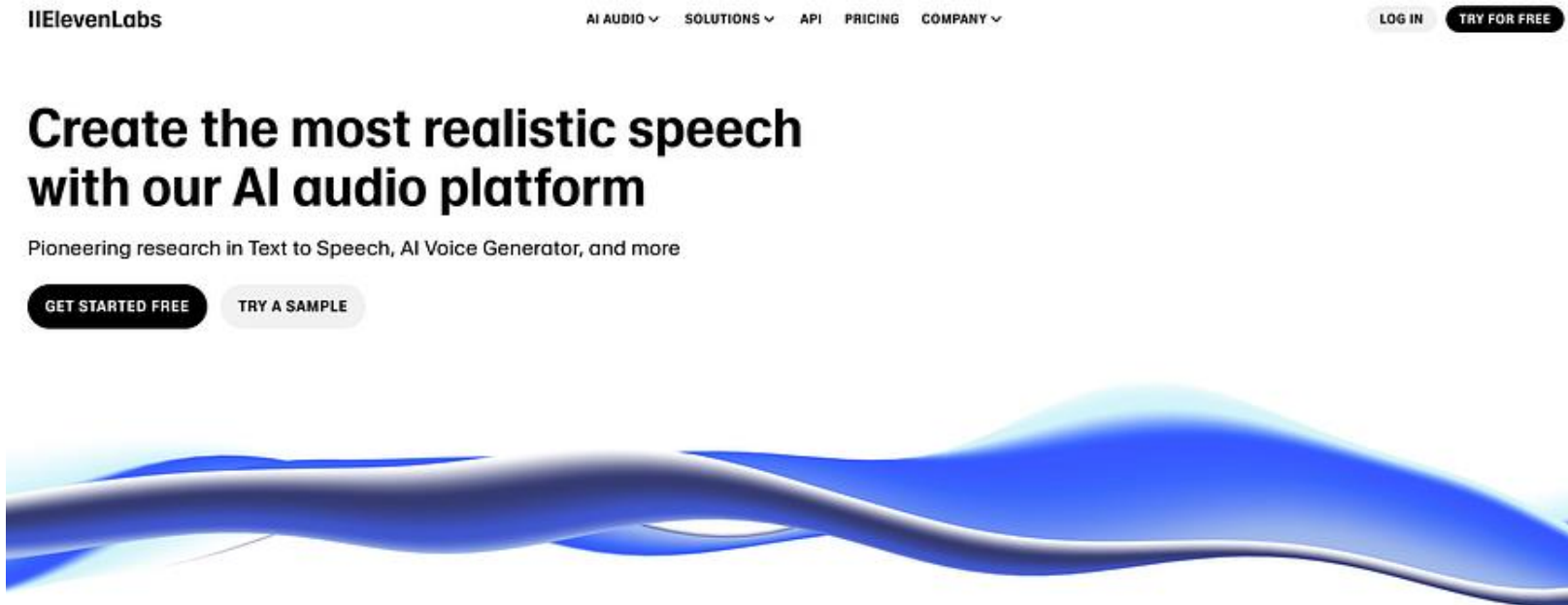
RunwayML

- Innovative platform for creative professionals
    - RunwayML is an innovative platform that provides generative AI tools for creative specialists.
    - It supports a range of creative tasks, including image and video generation, interactive media, and more.
    - RunwayML's user-friendly interface and powerful AI models make it accessible to artists, designers, and creators who want to explore AI-driven creativity.
    - The platform allows users to experiment with different models and techniques, opening up new possibilities for creative expression in digital art, video production, and multimedia projects.
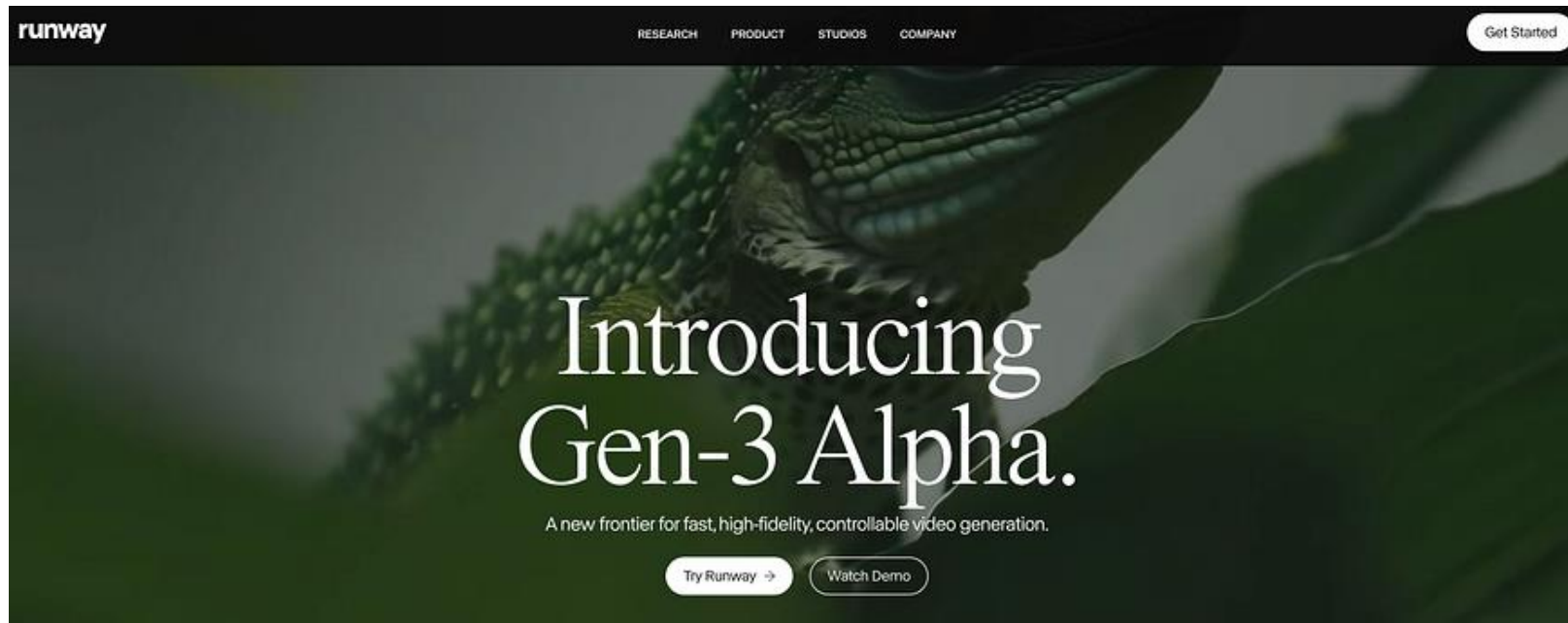
Midjourney

- Generative AI tool for visually stunning images and graphics in seconds
  - Midjourney is a generative AI tool focused on creating visually stunning images and graphics.
  - It offers advanced features for generating unique designs, making it a valuable resource for graphic designers, marketers, and content creators.
  - Midjourney uses AI to analyze and understand design trends, allowing it to produce visuals that are both aesthetically pleasing and aligned with current design standards.
  - Used in creation of logos, banners, or complex illustrations.
  - Midjourney provides a creative edge that helps you stand out in a crowded visual landscape.

Synthesia

- AI-driven video creation platform
  - Create videos with human presenters (AI avatars) by simply typing in text. Choose between 125+ AI avatars. Supports over 120+ Languages.
  - Synthesia is a leader in AI-driven video creation, offering tools that allow users to generate video content using **AI avatars** and automated script generation.
  - It's particularly useful for creating video presentations, tutorials, and marketing videos without the need for expensive production equipment or extensive video editing skills.
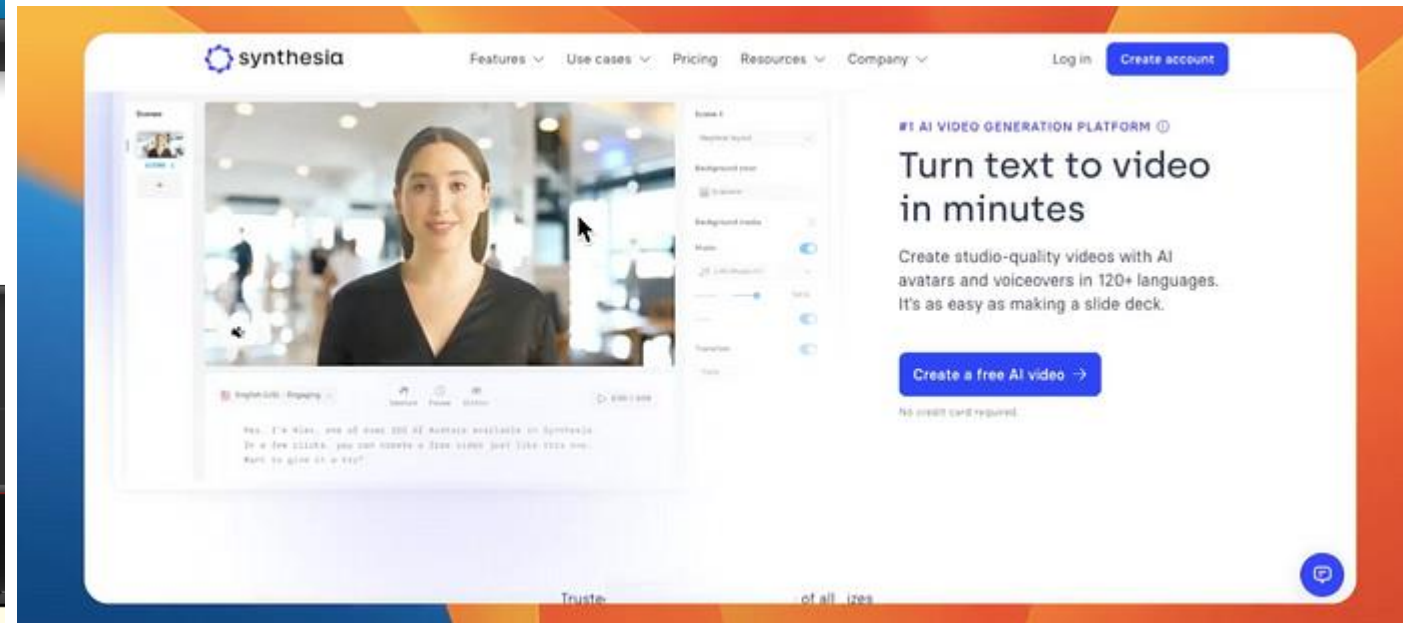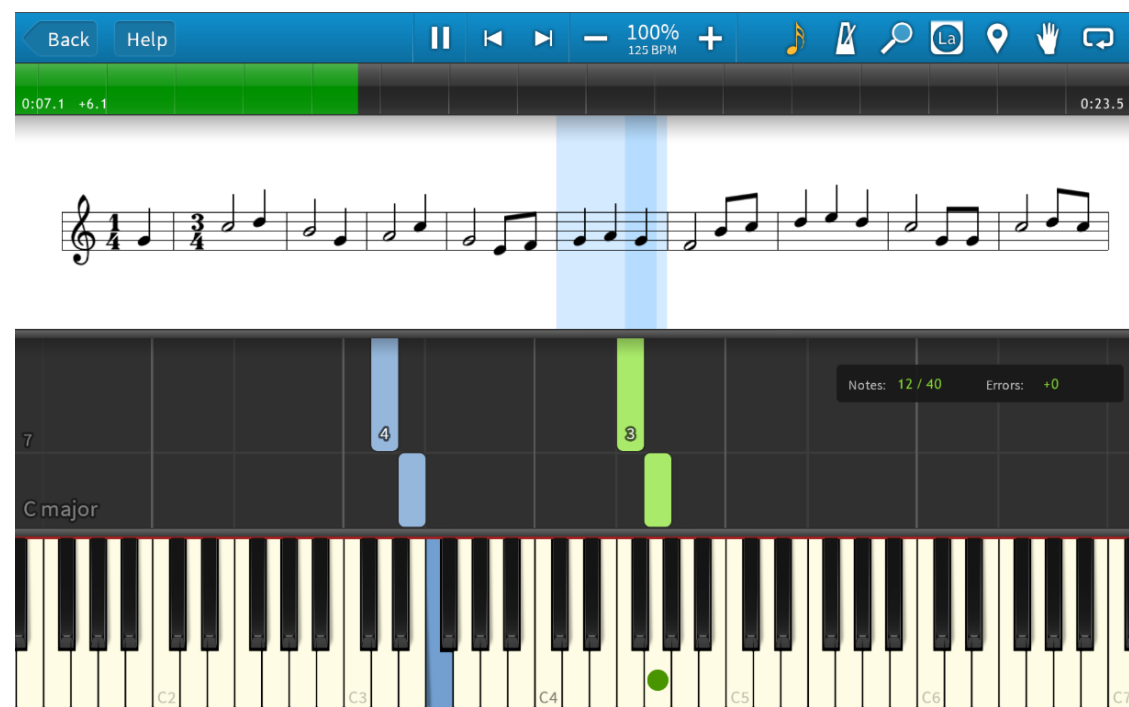
Suno

- Generative AI tool for music and sound generation
 - Suno is a generative AI tool that focuses on music and sound generation.
  - It allows users to create custom music tracks and soundscapes using AI, offering a wide range of genres and styles.
  - Suno's algorithms are capable of generating music that is not only unique but also tailored to specific moods or themes.
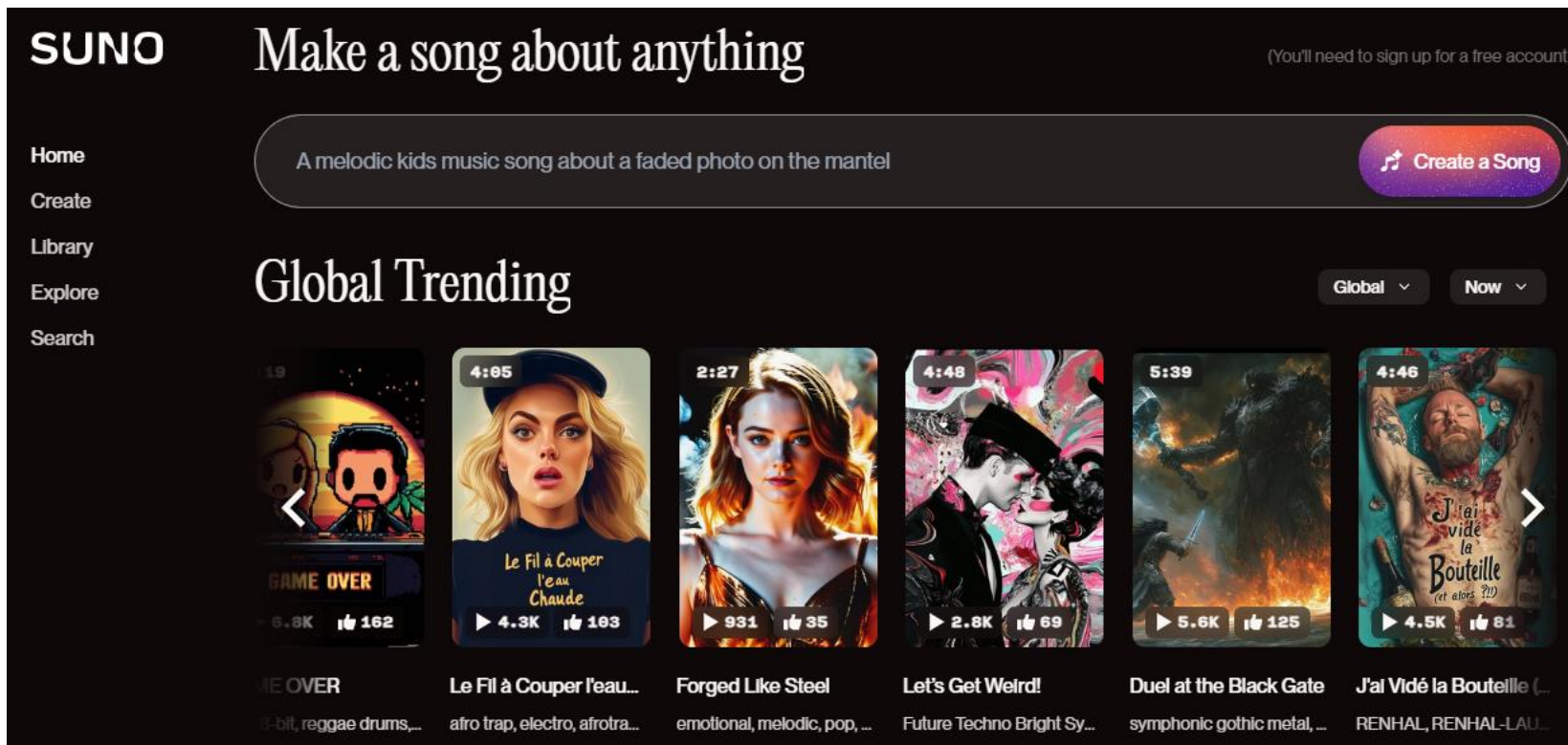
Soundraw

- AI-powered music generation tool
  - Soundraw is an AI-powered music generation tool that allows users to create custom music tracks tailored to their needs.
  - It offers a wide range of musical styles and moods, making it ideal for video producers, game developers, and content creators looking to add original music to their projects.
  - Soundraw's AI algorithms analyze user preferences and generate music that matches the desired tempo, genre, and atmosphere.
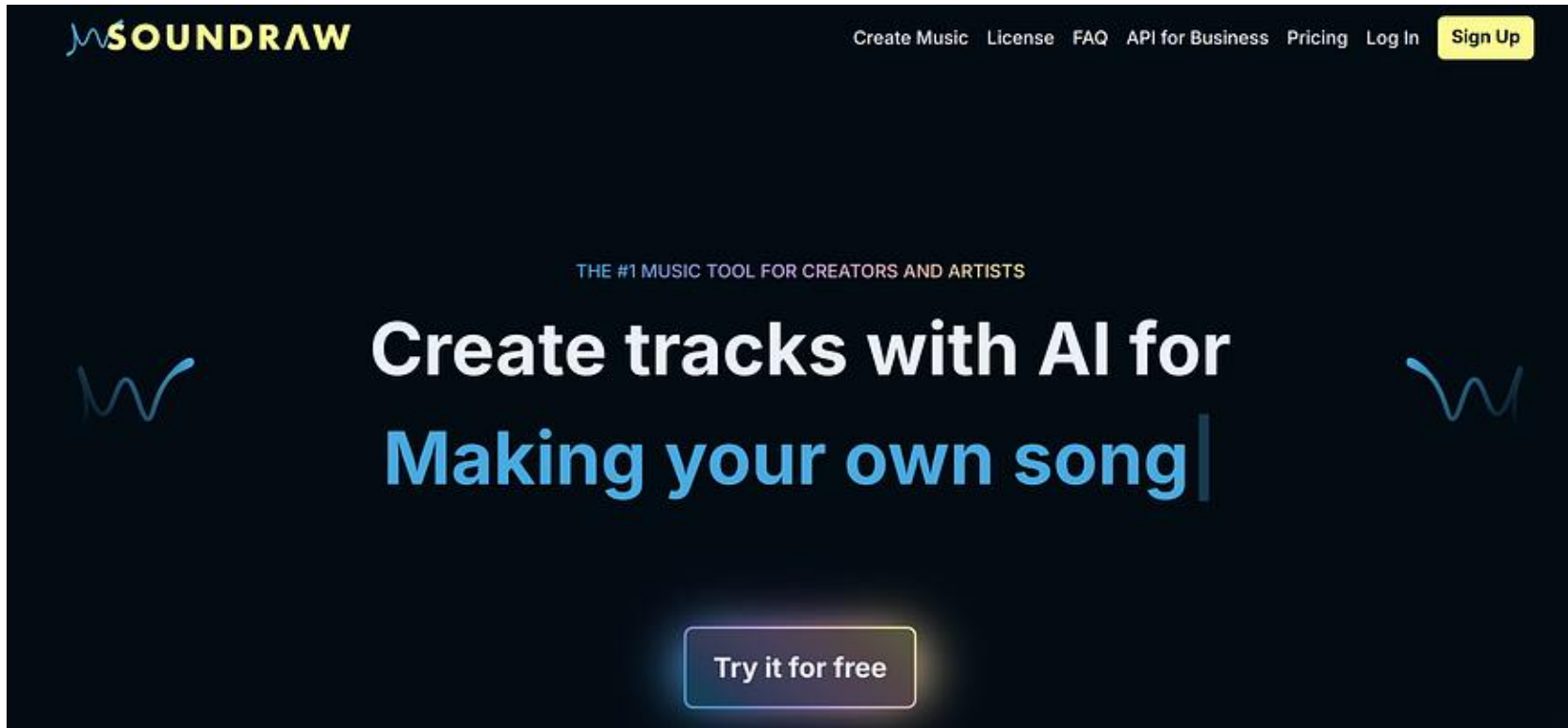
Copy.ai

- AI-powered tool for generating marketing copy
    - Copy.ai is a powerful AI tool designed to help users generate creative and engaging marketing copy.
    - It uses advanced natural language processing algorithms to produce text that resonates with the target audience, whether for ads, social media posts, or blog content.
    - Copy.ai's versatility makes it suitable for various industries, and its user-friendly interface ensures that even those with limited technical expertise can produce high-quality copy.
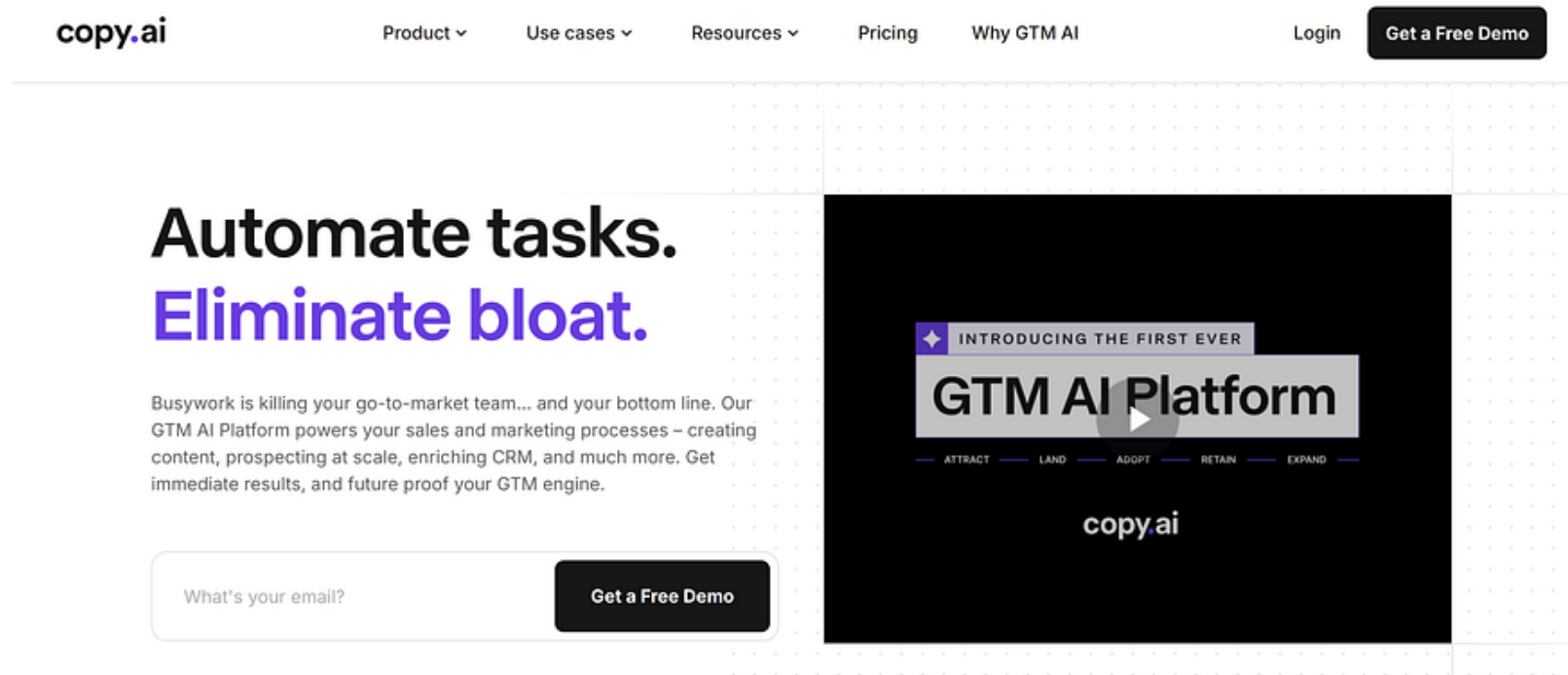
Notion AI

- AI-powered tool for content creation, organization and planning
  - Notion AI is an extension of the popular productivity tool Notion, designed to enhance content creation and organization.
  - It uses AI to help users generate text, organize information, and streamline workflows within the Notion environment.
  - Notion AI can assist with tasks such as drafting documents, creating to-do lists, and summarizing notes, making it an invaluable tool for both personal and professional use.

Just ask Notion AI.

Knowledge, answers, ideas. One click away.

Get Notion free

Get answers
Just ask Q&A, and find the info you need in seconds.

Write better
Get help writing and brainstorming in Notion, not in a separate browser tab.

Autofill tables
Turn overwhelming data into clear, actionable information in seconds.

Intellecs AI

- A platform that uses AI to help with writing, research, task management, and collaboration. Some of the features of Intellecs.ai include:
    - Data retrieval - Intellecs.ai can retrieve data from a variety of sources, including online and user content.
    - Research materials - has tools for querying research materials, such as PDFs and videos.
    - Smart knowledge retrieval - provides suggestions through smart knowledge retrieval, which can be transformed into a chat interface.
   - Context-aware AI Q&A that understands document relationships.
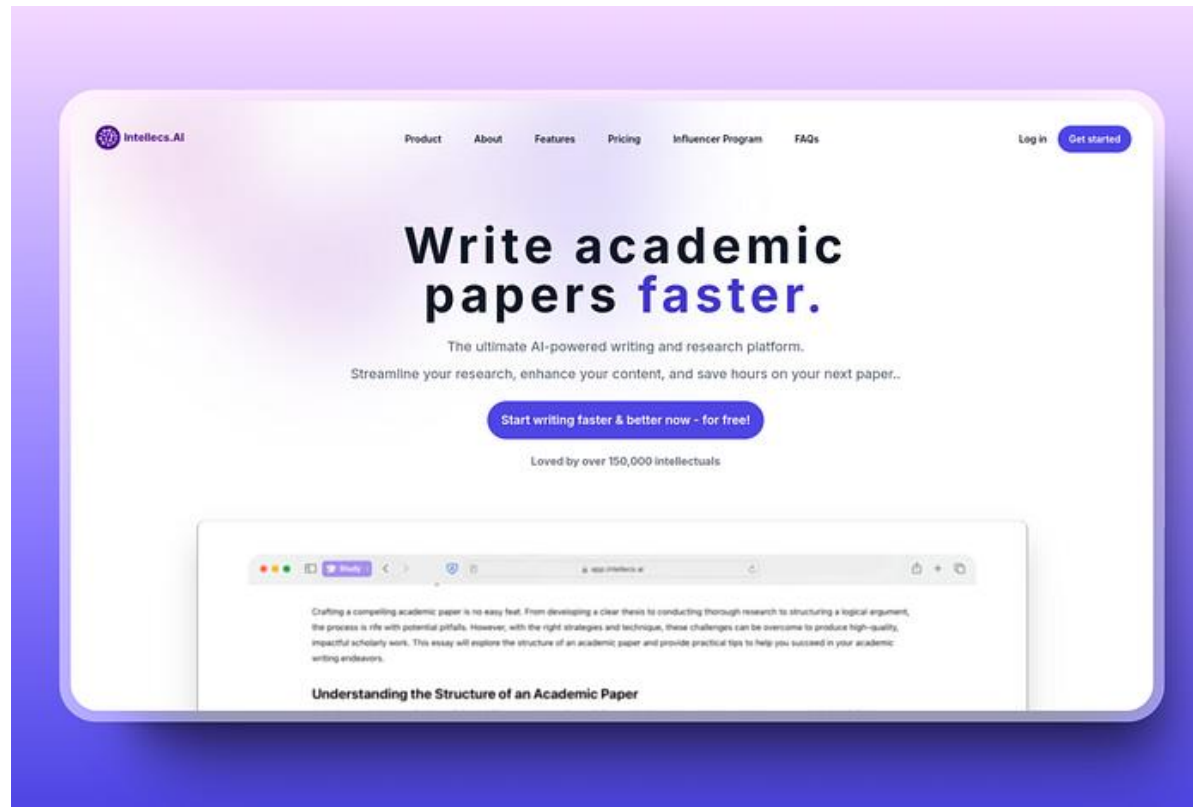
Gnow

- Gnow is a tool that helps you learn new things quickly and easily. It offers personalized learning paths, so you can study what you're interested in, at your own pace.
  - Gnow has different tools like quizzes, flashcards, and real-world examples to make learning fun and engaging. You can even track your progress and see how much you've learned.
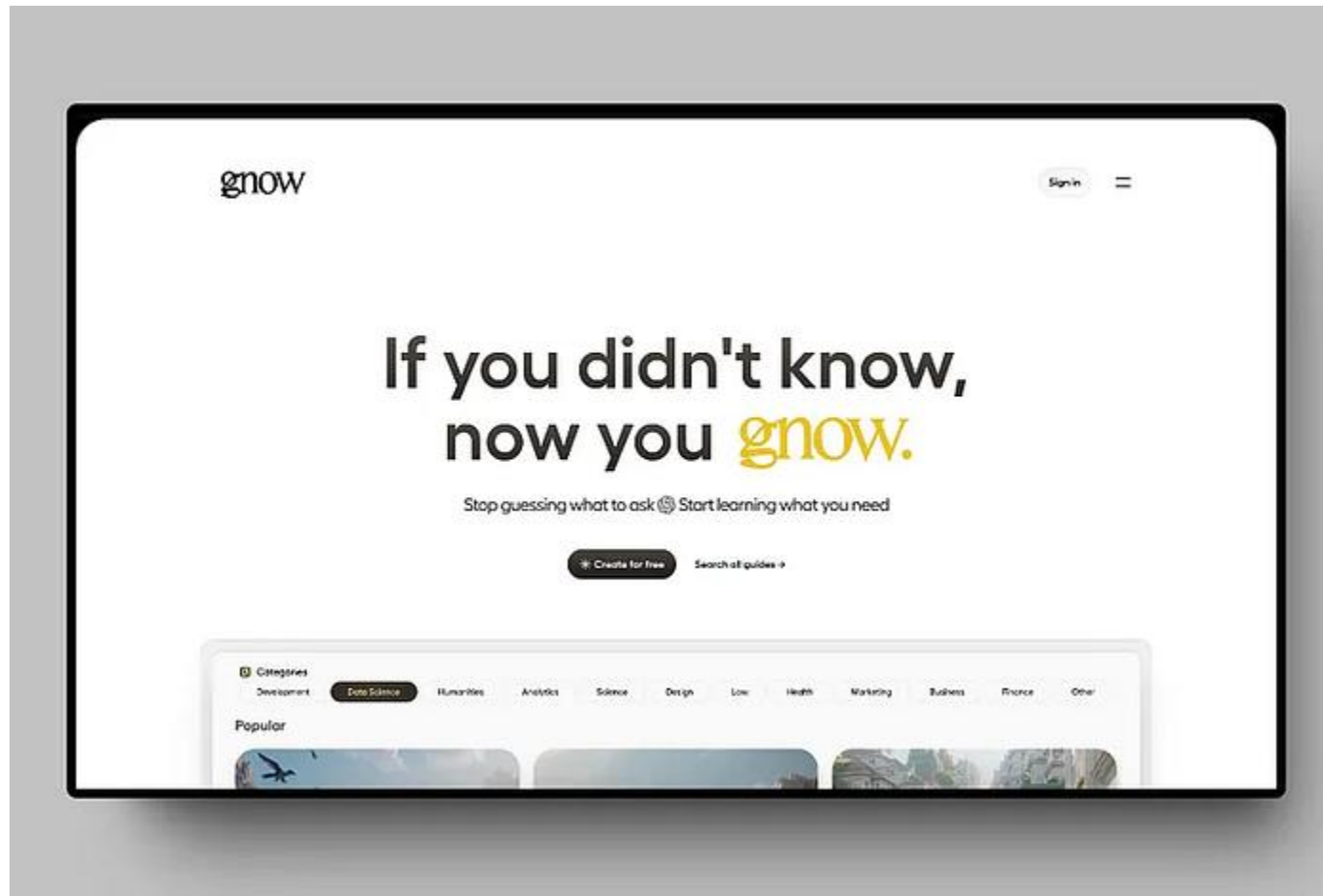
Gamma

- Gamma AI is an AI-powered tool that helps users create presentations, documents, and web pages — because who has time to actually design stuff anymore? You just tell it what you want, and it does all the hard work.
    - Presentations: Gamma can generate presentations with a variety of content, including text, images, charts, graphs, videos, animations, and interactive elements. Users can also add media such as YouTube videos, Spotify songs, and TikToks.
    - Documents: Gamma can create documents with a simple prompt, or users can upload files or paste content to provide background information.
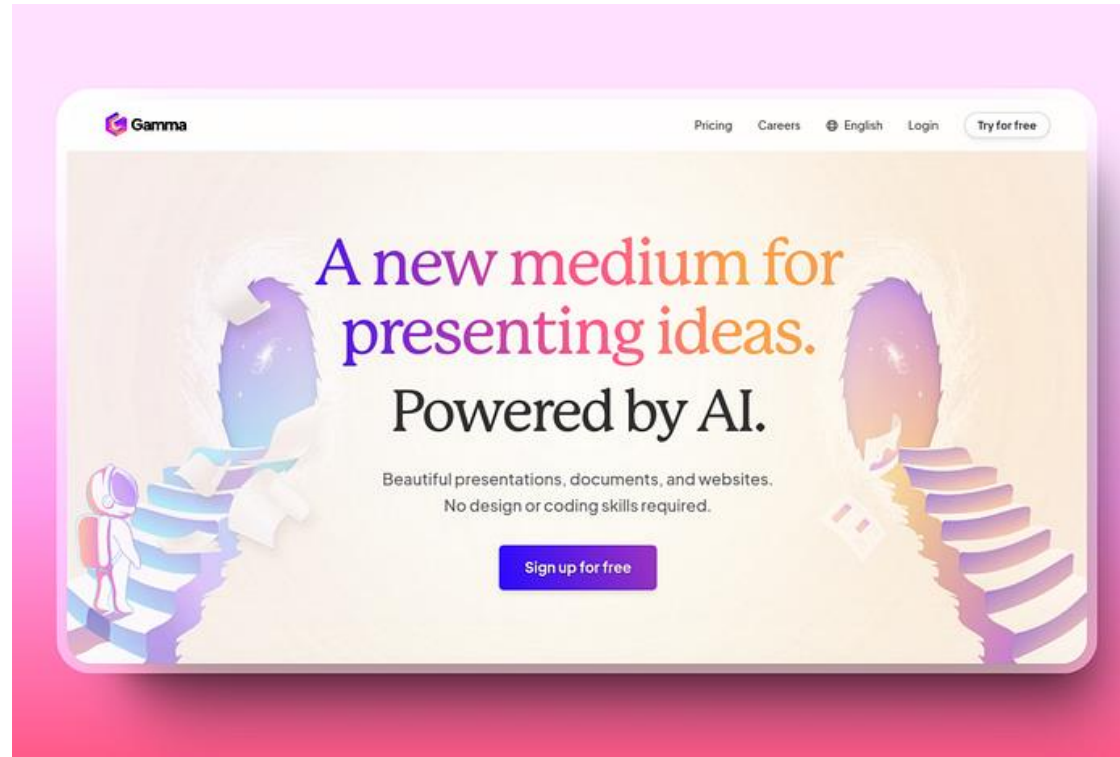
Chromox AI

- An AI-powered platform that helps users create visual content, such as images and videos.
  - It's designed to be intuitive and user-friendly, and can be used by both professionals and amateurs.
  - Chromox is a Google Colab, which means it's a series of pre-created codes that can be run without needing to know how to code.

Nightcafe Studio

- NightCafe Creator is an AI Art Generator app that lets you make art with AI in a number of different ways. You can make your picture look like a work of art with neural style transfer.
  - APhoto recreation: Recreate photos in different styles, patterns, and textures
  - Text-to-image: Create art from a text prompt
  - Style transfer: Transform photos into art
  - Video creation: Animate still images into videos
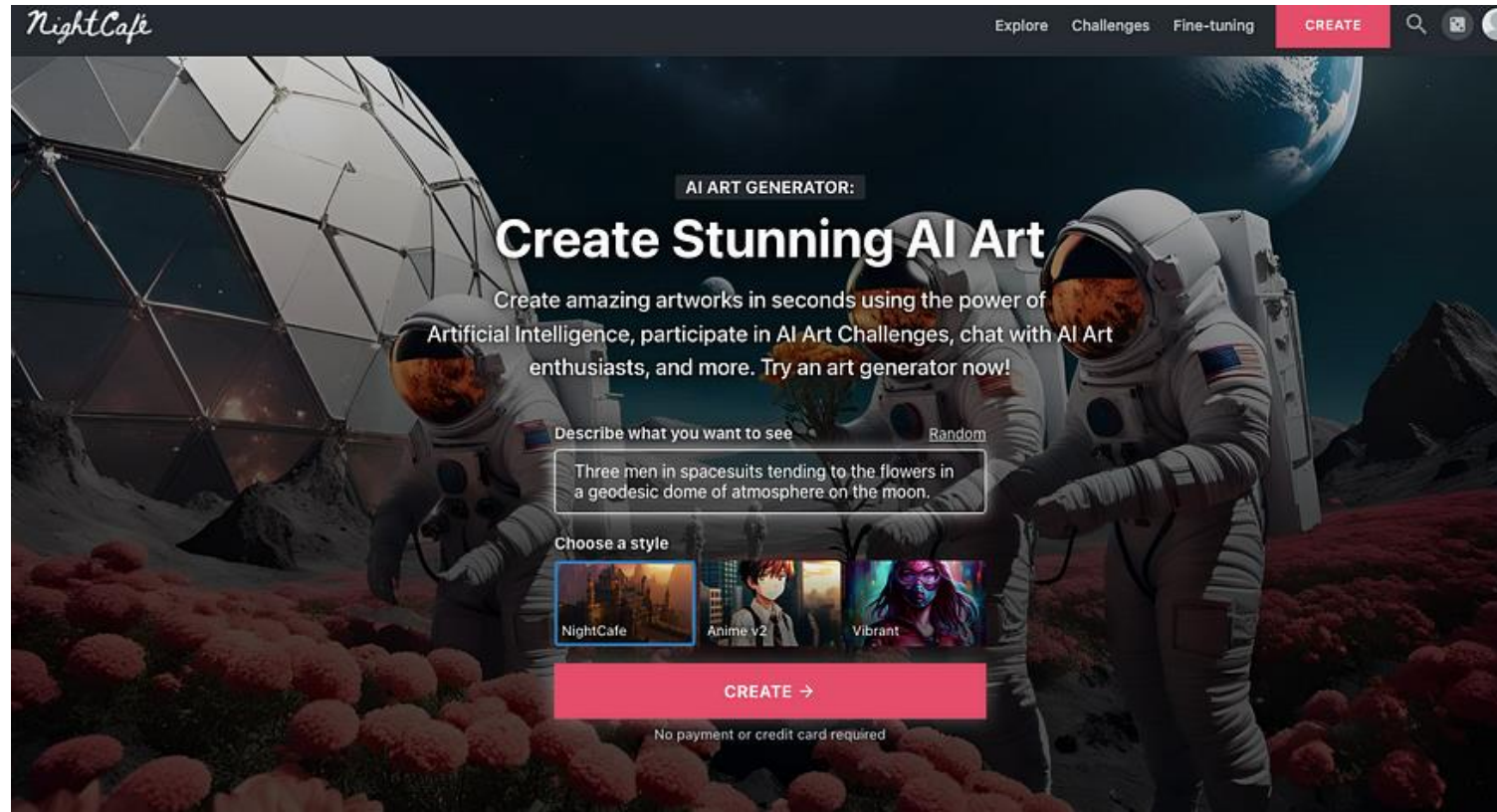
Humata AI

- Humata AI is an AI tool that helps with document analysis and research, and can be used for a variety of purposes, including:
    - Summarizing documents - can summarize long papers and articles.
    - Answering questions - can answer questions about the content of a document
    - Citing sources - can cite relevant sections from uploaded documents
    - Highlighting findings - can highlight findings in a document
    - Searching for topics - can search for specific topics in a document
    - Comparing documents - can compare documents
    - Analyzing market trends: Humata can analyze market trends
    - It can analyze files in PDF, DOC, DOCX, PPT, and PPTX formats.
    - Humata AI offers a free version that allows users to analyze up to 60 pages of a document and receive up to 10 answers. A subscription plan is also available, which costs $15 per month.