AI Tools for Professionals

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1 Introduction

There are countless AI tools and more are being published each day. This paper aims to offer an overview of such tools, but it is practically impossible to be complete or up to date. Accordingly, the aim is to sketch the landscape of readily available AI tools, and to offer a handful of examples in each area (not all of which we have tried).

1.1 Brief Introduction to Artificial Intelligence

Artificial intelligence (AI) refers to computer systems that can perform tasks that traditionally require human intelligence, such as visual perception, language processing, or decision-making. Although research into AI started in the 1950's, advances in computing power allowed for significant advanses in the last decade or so.

Approaches to AI include symbolic AI (e.g. Expert systems) or evolutionary programming (mostly applied towards optimization), but lately Machine Learning (ML) is dominant. ML involves "training" computer models on large amounts of data so they can make predictions based on patterns. A common type of ML model is a neural network, which is inspired by the human brain. Deep learning considers a class of multiple layered neural network models. Two major areas of AI that use deep learning are natural language processing (NLP) and sensory perception.

- NLP focuses on processing human language, for example translating between languages or answering questions. Large language models (LLMs) like GPT-3 are NLP models trained on massive collections of texts.
- Sensory perception deals with analyzing visual, auditive, or other sensory data to arrive at higher-level insights and predictions. This includes human senses (e.g., computer vision), but also non-human senses (interpretation of MRI scans or wifi signals).

Broadly, AI is applied in the following contexts:

- Robotics and computer vision (e.g. self-driving cars, manufacturing, healthcare diagnostics)
- Business & Enterprise (e.g. chatbots, predictive analytics)
- Professional support (e.g. ChatGPT, Midjourney)

Many domains are impacted significantly by AI. To mention a few: healthcare (e.g. diagnosis & treatment planning), cybersecurity (threat detection, network security), manufacturing industries, both in products and in processes (transportation and automation), agriculture (crop monitoring,

predictive analytics), media (AI-created content). This paper focuses on the second and third category. We consider tools that are easily available for individual professionals and we do not consider applications that are embedded in (enterprise) processes.

1.2 Ethical considerations & the EU - AIA

As AI is embedded in more and more relevant (or even critical) processes, ethical consideration in the creation and use of AI become more relevant. For instance, AI tools should not discriminate (race, religion, ...), should not be biased (politics, brands, ...) and should not misinform. Some ethical considerations include:

- **Fairness:** AI tools should not discriminate against people (race, gender, religion, ...).

- **Transparency:** AI tools should be transparent about how they work and make decisions. It should be clear how (user) data is used.

- **Accountability:** There should be a way to hold developers and users of AI tools responsible for any harm that the AI tool causes.

- **Privacy:** AI tools should respect people's privacy.

- **Safety:** AI tools should be safe to use.

The European Union is in the process of ratifying the Artificial Intelligence Act (AIA) which will have consequences for organizations applying AI in so-called 'critical' processes. More about this can be read at todo. For now, readers should be aware that the application of AI will be restricted by law in the future.

1.3 Further Study

This paper offers an overview of tools but doesn't offer much further understanding of AI. To this end, the paper will offer:

- a reading list on the current state of AI research
- a list of freely available online courses on AI
- a list of other collections of AI tools and resources

1.3.1 Reading List on the Current State of AI

- Artificial Intelligence Index Report 2021
- A Brief Overview of AI Governance for Responsible AI
- Explainable AI: Current Status and Future Directions
- Recent Advances in Deep Learning: An Overview
- A Very Brief Introduction to Machine Learning With Applications
- Robust Natural Language Processing: Recent Advances and Challenges

- Foundation Models for Natural Language Processing

- A Comprehensive Review of Computer Vision in Sports

- Recent Advances of Continual Learning in Computer Vision

- What is Cognitive Computing? An Architecture and State of the Art

- Article: Summary of ChatGPT/GPT-4 Research and Perspective Towards the Future of Large Language Models

- ChatGPT Prompt Engineering for Developers

1.3.2 List of Online Courses on AI

- elementsofai.com - Introduction to A.I.

- Prompting - learn prompting

- introductory course on prompt engineering

- Hasan Notion Courses

- Google Courses:
  - Google ai-machine-learning
  - Introduction to Generative AI
  - Introduction to Large Language Models
  - Introduction to Responsible AI
  - Generative AI Fundamentals
  - Introduction to Image Generation
  - Encoder-Decoder Architecture
  - Attention Mechanism
  - Transformer Models and BERT Model
  - Create Image Captioning Models
  - Practical Deep Learning

1.3.3 AI Resource Collections

- Supertools AI resources

- AiTopToolsAI tools directory

- TopApps AI tools directory

- Ben's Bites AI Newsletter

- Promptpal Prompt generator

- FlowGPT set of prompts

2 Categorization

There is an overwhelming number of tools that offer more or less specific AI-based services. Just listing these tools seems pointless, but there is no generally accepted categorization. This paper offers a categorization, under the understanding that categories are subjective and that tools could be categorized in multiple ways. As a matter of fact, a few tools are listed below under more than one categories, because they are important instances in each category.

The main categories discussed below are:

- Ideation: the process of innovating and developing ideas
- Business: activities related to strategy, sales, marketing, and analysis
- Communication: creating, organizing, and sharing information
- Creation: generating audio, visual, and other multimedia content
- Lifestyle: applications related to personal life and leisure
- Implementation: turning designs and plans into completed solutions
- Operations: managing systems, processes, and resources to enable operations

This listing shows a preference for tools that offer a free subscription tier, since this allows professionals to evaluate tools at their own pace. For this reason we tag tools (with $) which do not offer a free-tier subscription, although most do offer a free trial period. Note that this information may no longer be accurate for some tools. Most tools are accessible online, through a browser, but some tools are components used to create tools programmatically. Such tools are marked with 'DIY'.
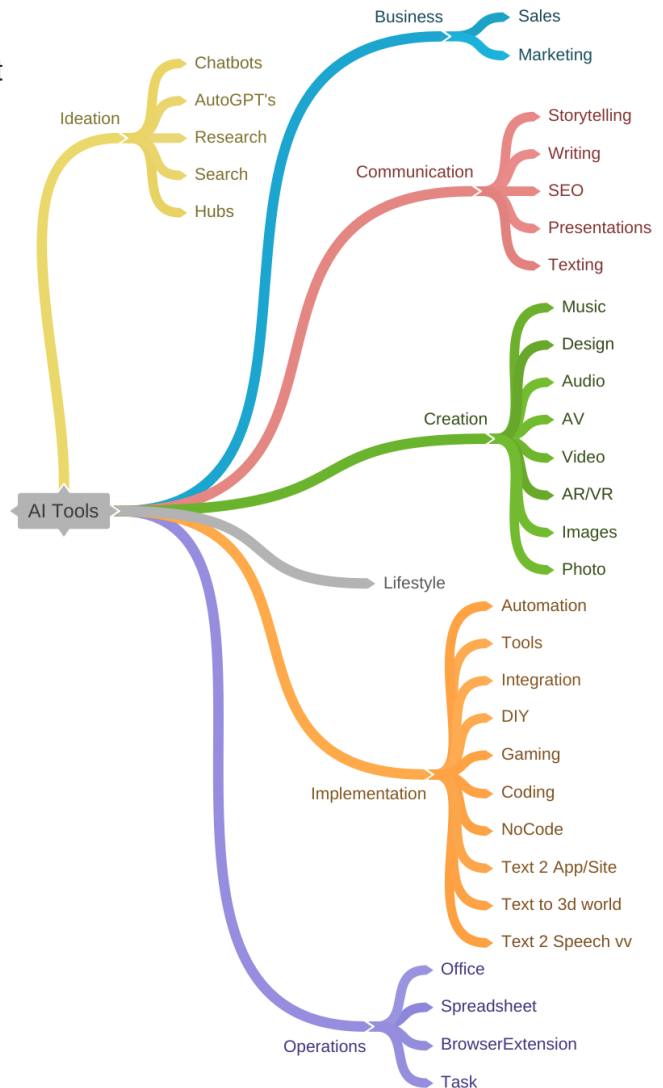
3 The Tools

3.1 Ideation

In this category:

- Chatbots

- Orchestrating AI
- Research
- Search
- Hubs

3.1.1 Chatbots

A chatbot is a conversational agent or dialogue system - a software application based on natural language processing (NLP) and large language models (LLMs) that is trained on very large numbers of texts. Chatbots are able to conduct coherent conversations, understand context and intent, answer questions based on their training data, complete partial thoughts, think out of the box, often providing novel responses, and be customized for specific use cases or workflows.

Tool	Comments	
ChatGPT(OpenAI)	Platform:GPT-3.5/4	
Claude(Anthropic)	Platform:GPT-4	
Bard(Google)	Platform:LaMDA -- has internet access	
ChatABC	Platform:GPT -- extras: embedding, team	
HuggingFace	Platform:Llama2 -- also a repository of many AI tools	
Pi	Platform:Inflection	
FastChat	Platform:Llama2	DIY
Open source Llama	Platform:Llama2	DIY
VertexAI	(Google) Generative AI Studio	
NoCodeMBA	Paltform:GPT-3 / Dall-E 2	

3.1.2 Orchestrating AI

Orchestrating AI (OAI), also called Auto-GPT's, refers to systems that coordinate and combine multiple AI agents to accomplish complex goals. An OAI decomposes high-level goals into sub-tasks, and invokes specialized AI tools or agents for each sub-task. The orchestrator combines the output from each AI agent to determine the next steps to achieve the overall goal. Key capabilities of orchestrated AI include understanding instructions, reasoning about sub-goals, selecting appropriate agents, monitoring progress, and integrating results.

Tool	Comments	
AIAgent	autonomous AI Agents in browser	
GodMode	Agent which browses internet to fulfill goals	

Tool	Comments	
Cognosis	Agent which browses internet to fulfill goals	
Aomni	Agent which browses internet to fulfill goals	$
Nando	Agent which browses internet to fulfill goals	$
BabyYagi	APIs to create, prioritize, and execute tasks	DIY
AutoGPT	Automating research & writing blogs with SEO	

3.1.3 Research

Tools like chatbots and digital assistants can answer questions and summarize findings. Brainstorming aids generate novel hypotheses and study ideas. Automated literature search helps surface relevant papers and fast-track reviews. Chat-with-paper applications allow discussing studies in natural language.

Tool	Comments	
Bard	ChatBot has internet access	
MyMap	Brainstorm to presentation	
IdeasAI	Generates random ideas	
ChatPDF	chat with any PDF	
Humata	chat with any PDF	
Doclime	chat with any PDF	
QuizGecko	Quizzes from any content	$
SciSpace=typeset	ask questions about papers	
Consensus	ask question, get answer from research papers	
Mindgrasp	Summarize and answer questions on documents, PDF's, Videos, meeting recordings, etcetera	
Elicit	AI Research Assistant	
Caktus	Several research writing tools	
Scite Assistant	AI Research Assistant	$
Rose.ai	finding, cleaning, visualizing and transforming data	
Paperpal	Improve academic writing	

Tool	Comments	
Sourcely	search article based on description	
Research Faster Chart GPT	finding, visualizing, and transforming data	
Wizdom/	topic db	
jane.biosemantics	Journal finder	
AuthorServices	Journal finder	
Journalfinder	Journal finder	
Web of Science	Journal finder	
journalsuggester	Journal finder	
Bison	Open Access journal finder	
JRNowl	Medical Journal finder	
journalguide	Journal finder	
FSTAJournalfinder	Food & Health Journal finder	

3.1.4 Search

AI is advancing search capabilities through natural language understanding, semantic analysis, and contextual recommendations. New search tools allow queries in plain text and interactively refine results. Underlying AI models identify query intent, extract key concepts, surface relevant information, and learn from feedback.

Tool	Comments	
You	Search	
Perplexity	Search	

3.1.5 Hubs

AI progresses, platforms are emerging to provide integrated access to a growing array of AI applications through a central interface.

Tool	Comments	
OpenAI	OpenAI AI applications	
Vondy	content creation	

Tool	Comments	
HuggingFace	Platform:Llama2 -- also a repository of many AI tools	

3.2 Business

In this category:

- Strategy
- Marketing
- Sales
- Analysis

3.2.1 Strategy

AI assistants can generate strategic options, evaluate scenarios, and identify risks and opportunities.

Tool	Comments	
Rationale	decision making	

3.2.2 Marketing

AI is transforming marketing through customer segmentation, predictive modeling, personalized content, and optimized campaigns. Tools like Jasper provide an AI co-pilot.

Tool	Comments	
10Web	name generator	
BrandMark	Create Logo	
Persona	Develop user personas	
Ad Creative	Create text, insights and posts	$
AdCopy	High converting ads	
beehiiv.com	Launch, scale, and monetize your newsletter	
MeetEdgar	socials	
TypeFace	personalised content	
WNR.AI	super-prompts & avatars	
Postfluencer.app/	Linkedin Posts	
Yaraa	ads, emails, and what not	

3.2.3 Sales

Intelligent sales assistants powered by natural language processing handle lead engagement, surface insights, recommend prompts, and accelerate deal closing.

Tool	Comments	
Orimon	contextual sales conversations	
Retention X	Retention	
Simplified	integrated chatbot for sales & support	

3.2.4 Analysis

Predictive analytics, optimization algorithms, and data visualization tools extract insights from business data to inform decisions on pricing, investments, resource allocation and more.

Tool	Comments	
Insight7	ChatGPT for customer feedback	

3.3 Communication

In this category:

- Storytelling
- Writing
- SEO
- Presentations
- Texting

3.3.1 Storytelling

AI storytelling tools can generate creative fiction, optimize narrative flow, and customize stories to engage audiences.

Tool	Comments	
Tome	shaping & sharing ideas	
Artflow	Storytelling, Images, Video	
Kickresume	Auto resume	

3.3.2 Writing

Auto-writing tools powered by GPT-3 and other language models can draft, expand, refine, and

reformat text. Capabilities span grammar correction to contextual continuation.

Tool	Comments	
HyperWrite	Business research & writing	
Cohesive	write and edit fiction / non-fiction	
DeepL	Translation	
Quillbot	rewrite, fix text, grammar, tone and paraphrase	
Compose AI	generate any text using AI	
Jenni AI	AI writing assistant	
Frase		$
KoalaWriter		$
rytr	A better, 10x faster way to write	
Notion	Collaboration / note taking	
Grammarly	Writing Assistant	
Longshot	from idea to SEO-friendly blog	
Saga	Creative assistant	
Glasp		
LongShot		
Neuroflash	Text (& image)generator	

3.3.3 SEO

AI can optimize web content for search engines through keyword analysis, semantic enrichment, site optimization, and automated report generation.

Tool	Comments	
NameWizard	Name creation	
Longshot AI	create idea to a blog in minutes	
10Web	Wordpress	
SEOmatic		$
SeRanking	SEO	$
Optimizely	web site optimizer	

Tool	Comments	
durable.co	website builder	
SurferSEO	SEO	
ClosersCopy	SEO optimized marketing copy	

3.3.4 Presentations

Intelligent presentation tools help create slides, graphs, and visual aids; generate speaker notes; and improve narrative flow.

Tool	Comments	
Gamma	Presentations	
http://decktopus.com	amazing presentations in minutes	
Visme	Presentations, Documents, Data Visualization	
beautiful	Presentations, Documents, Data Visualization	$
SlidesAI	Slides	
Slidebean	Slides	
Sendsteps	Slides	
GammaApp	slides	

3.3.5 Texting

Conversational agents automatically engage customers and users via text/SMS with flexible dialogs.

Platforms:

- WA: Whatsapp
- TG: Telegram
- X: X (Twitter)

Tool	Comments	
WAGPT	WA	
BuddyGPT	WA/TG	
TextGPT	Chat or make images with Dall-E	$
Yatter	WA	$

Tool	Comments	
ChatGPTonTelegram	TG	$
TweetMonk	Write & Schedule	$
TweetHunter	Write & Follow Up	$
PostWise	Write	$
WhatsGPT	AI messaging across all platforms	
Lovelace	Digital Communities	

3.4 Creation

In this category:

- Music
- Design
- Audio
- AV
- Video
- AR/VR
- Images
- Photo

AI is transforming how we generate multimedia content across modalities. For music, AI tools can compose original melodies, continue partial songs, and suggest harmonies. In graphic design, AI assists with ideation, layouts, and augmenting creativity. For audio, speech and podcast generation tools deliver human-like voices with customizable tones. Video creation leverages AI for editing workflows, special effects, and even synthesizing imagery. 3D design tools expedite modeling and scene creation. And for images, AI generates original photos, artwork, and infographics based on prompts. Taken together, these AI-powered creation tools aim to enhance human creativity across the production pipeline - from ideation to composition, editing to refinement. While still requiring an artistic human touch, AI promises to radically expand access and accelerate creation.

3.4.1 Music

Tool	Comments	
Mubert	Generative Music	
Beatoven	Generative Music	
AIVA	Generative Music	

Tool	Comments	
SoundDraw	Generate & Customize music	
Splash	Text to music	

3.4.2 Design

Tool	Comments	
Designs.AI		$

3.4.3 Audio

Tool	Comments	
Supertone	Singing, text2speech, lyrics transcription	
Harmonai	Generative audio tools	
AVMapping	Video/Images/Text to Music/SFX	
Whisper	speech to text	
Koe.ai	transform voices in real-time	
Audioread	turn text or pdf into PodCast	

3.4.4 Audio/Video

Tool	Comments	
Descript	audio/video tools	

3.4.6 Video

Tool	Comments	
Heygen	video generation from script with avatar	
d-id	create avatars, interactive from text	
decoherence.co	generate video	$
Steve AI	create and edit (animated)	$
Descript	video podcast editor	
Lumen5	video podcast editor	

Tool	Comments	
Pictory.ai	text to video	$
2short.ai	youtube/tiktok shorts	
Eightify	Youtube Summary	
Genmo	create and edit video or images from text	
Morise AI	help video to go viral	$
WonderDynamics	automatically animate, light and composes CG characters into a live-action scene.	$
Kaiber	Video generation from images or text descriptions.	
Synthesia	video generation	
Runway	Video editing	
OpusPro	Video to Clip	
RaskAI	translate videos and add voiceover	
Elai	AI presenter	
Gling		
HourOne		
Trimmr.AI	youtube shorts	
Kaiber	: Video generation from images or text descriptions.	
Synthesia	video generation	
Runway	Video editing	
OpusPro	Video to Clip	
RaskAI	translate videos and add voiceover	
Elai	AI presenter	
Genmo	3D Assets, animation, trailer generation, images	

3.4.7 AR/VR

Tool	Comments	
Luma Labs AI	Turns phone recordings into AR scenes. Only iOS	

3.4.8 Images

Tool	Comments	
DALL-E	Editing, extending	
Midjourney	Well documented, access thru Discord	
StableDiffusion	Open Source, Embedded in e.g. DreamStudio (paid), Lexica (Free tier), or API access via e.g. Jupyter	
OpenArt	Image	
DiffusionArt	Image	
StockImg.AI	Image	$
Nero	Image enlarger/improver	

3.4.9 Photo

Tool	Comments	
PlaygroundAI	Editing, extending	
Leap	Editing, extending	$
BeFunky	Editing, extending	

3.5 Lifestyle

Tool	Comments	
AntherAI	Your individual story	

3.6 Implementation

In this category:

- Automation
- Tools
- Integration
- DIY
- Gaming
- Coding
- NoCode

- Text to Speech vv
- Text to App/Site
- Text to 3d world

Automation, Tools, Integration & DIY

AI is accelerating development and reducing manual effort across the software lifecycle. Intelligent assistants automate coding, testing, and deployment while generative design tools quickly ideate UIs and architectures. Seamless integration enables embedding AI capabilities into apps and workflows. Low-code platforms expand access for DIY creation without coding expertise.

Gaming, Coding, NoCode

Specialized AI game engines assist with 3D world building, character development, and narrative design to boost creative workflows. AI coding assistants expedite development by generating and improving source code. No-code AI tools allow building sophisticated apps through intuitive visual interfaces instead of traditional programming.

Text to Apps/Sites, 3D Worlds, Speech

AI is enabling translating text descriptions directly into software applications, 3D simulations, and other digital experiences. By understanding natural language prompts, AI can synthesize the desired interactions, gameplay, and media assets. Text-to-speech and speech-to-text capabilities also facilitate conversational interfaces.

3.6.1 Automation

Tool	Comments	
Bardeen		
ContentBot	AI Workflow Automation	

3.6.2 Tools

Tool	Comments	
HuggingFace	Platform:Llama2 -- repository of many AI tools	DIY
Tools and Resources for AI Art		
GptKit	detect GPT	
StealthGpt	turn AI text in human-like text	
AiSEO	Undetectable AI text	

3.6.3 Integration

Tool	Comments	
Stability.ai	an open-source alternative to things like GPT-3/4. Many models	
Eesel	Integrate ChatGPT with company knowledge	
WonderChat	Integrate ChatGPT with company knowledge	$
Writesonic	Chat, Image creator + Bot Builder	$
Alicent	Toolkit	
Dante AI	Chatbots trained on your data	
SciSpace Copilot	Chrome extension for SciSpace	
Monica	Bard/CGPT/Claude Extension in other tools (e.g. browsers	$
Wiseone.io	browser extension: simplify complex information, read efficiently	

3.6.4 Gaming

Tool	Comments	
LeonardoAI	Game Assets	

3.6.5 Coding

Tool	Comments	
Debug Code	Learn coding	
Codeium	Coding toolkit	
Tabnine	Assistant for coders	
Copilot	Coding Buddy	
Toolkit AI	text to AI plugins	DIY
Codex	Open AI text to code	
Ghostwriter	Partner in code	
Backendless	Backend Management	
BuildAI		$

Tool	Comments	
Snyk	find & fix vulnerabilities	
TabNine	coding	
Codium	buddy	
Brancher/	AI app builder	
AskCodi/	syntax	

3.6.6 NoCode tools

Tool	Comments	
Imagica AI	Builds AI apps	
canva.com	create and share professional designs	
Uizard	Make UI mockups from sketch	
ToolBuilder	AI web tool builder	
Adalo	Ease of use	
Softr	NoCode building blocks	
Bubble	No Code web app	
Mixo	launch startup	$

3.6.7 Text to Speech vv

Tool	Comments	
Murf.ai	Text to speech	
Speechify.com	Text to speech	
Assembly	speech recognition-app. Pay per use	/
Lovo	AI Voices	
Wondercraft	Podcasts	

3.6.8 Text to 3d world

Tool	Comments	
Opus.AI	virtual world from description	?

Tool	Comments	
Blockade Labs	create a 360* image of a world based on description	
Unakin	Go from chat to video game in <1 minute	
Spline	3d objects	
Leonardo	Visual assets	

3.6.9 Text to App/Website

Tool	Comments	
appypie.com	App builder	$
uizard.io	website in minutes	
Copy.ai	Content generator	
NameWizard	Create name	
Longshot AI	create idea to a blog in minutes	
10Web	Wordpress	
Microsoft Designer	Design	
Uncody	Landing pages	
Durable	build a site in seconds	
Reetail AI	create online store in < 1 minute	
VondyInc	content creation	

3.7 Operations

In this category:

- Office
- Spreadsheet
- BrowserExtension
- Task

AI is optimizing workflows and unlocking productivity gains across core business operations. Intelligent office software can generate documents, emails, and presentations while offering conversational support. Smart spreadsheets analyze data, create models, and generate insights. Browser extensions add a layer of AI to automate online workflows. Digital assistants manage schedules, track tasks, and ensure follow-through on responsibilities. Taken together, these AI-

powered operations tools aim to save time on repetitive work, ensure consistency, reduce human error, and augment individual productivity. By weaving AI capabilities into core daily tools, businesses can increase efficiency, free up strategic thinking, and enable employees to focus on high-value priorities.

3.7.1 Office

Tool	Comments	
FinalScout	find email addresses and send emails	
Instantly	cold email	$
FoxyApps	leads	
TLDV	Google Meet / Zoom meeting note taker	
Otter	notes from audio meeting	
AudioPen	Unstructured voice notes to summary	$
Vribble/	Unstructured voice notes to summary	

3.7.2 Task

Tool	Comments	
Taskade	Task Management	$

3.7.3 Browser Extensions

Tool	Comments	
ChatGptWriter	Chrome extension	
ChatGptSider	Chrome/Edge extension	
ComposeAI	Chrome autocomplete extension	
AI Prompt Genius	Helps with prompts	
Voila	Firefox ChatGPT extension	
WiseOne	Chrome summary/query extension	
SnackPrompt	Prompt Database, also extension	

3.7.4 Spreadsheet

Tool	Comments	

Tool	Comments	
SheetAI	Text to Spreadsheet	

4 Closing Remarks

This paper has aimed to provide a broad landscape overview of the burgeoning field of AI tools and applications for professionals. While certainly not comprehensive given the vast scope and rapid pace of advancement, we have sought to highlight some of the key capabilities and offerings across categories like ideation, business, communication, creation, implementation, and operations.

The tools listed only scratch the surface of what is available, but hopefully provide a useful sampling for readers to understand the state of the art and explore further. As noted, many of the tool descriptions were AI-generated, illustrating how systems like Claude (Anthropic) can rapidly synthesize and summarize information once provided appropriate source context.

Looking ahead, we can expect the democratization and proliferation of AI to continue apace. Advancements in core techniques like large language models, computer vision, and multi-agent coordination will unlock new possibilities. Meanwhile, startups and incumbents will continue packaging these innovations into products targeting every industry and profession.

However, careful thought must be given to the ethical application of these powerful technologies. AI must be directed towards augmenting human intelligence rather than replacing it. Auditing processes, ensuring transparency, and embedding ethics are critical. Still, if developed responsibly, AI tools have immense potential to empower professionals, expand creativity, increase productivity, and help solve global challenges. We are only beginning to glimpse the beneficial synergies between human and artificial intelligence.