ARTIFICIAL WISDOM

The ultimate curated collection of resources
to help you get the most out of AI

TABLE OF CONTENTS

Thanks for requesting a copy of this guide. I hope you find it valuable.

In the coming years, AI will change the way we work and live. To thrive in this rapidly transforming landscape, we all need to learn more about AI. How to use it, and how to make it work for us.

The resources listed in this guide will help you to explore the world of AI and move forwards on your own AI transformation journey. Whatever stage of that journey you are on, you'll find resources, insights, and tools to help you embrace AI and elevate the way you work and learn.

You'll find links to training courses (most of them free), suggested reading, videos, podcasts, tools, and much more.

If you ever need help with your AI transformation efforts, I provide AI consulting services, facilitate Futurecasting workshops, and offer a wide range of AI-focused keynote talks to help organizations think about their future and plot a path to get there.

Thanks again for connecting, and best of luck with your own personal AI transformation journey.

Steve Brown

AI futurist, Entrepreneur, and Global Keynote Speaker
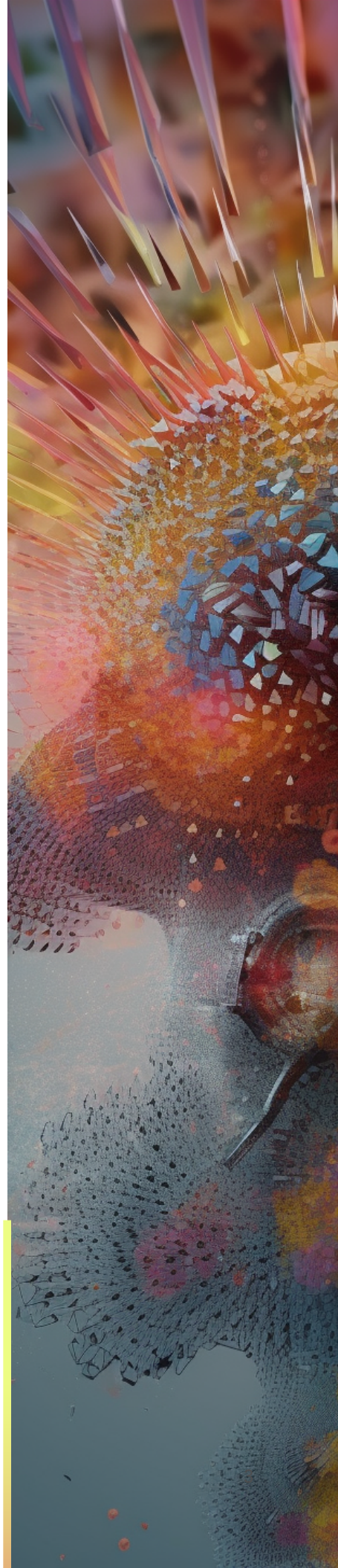
Former executive at Google DeepMind and Intel

Co-founder of The Provenance Chain Network

Author of The Innovation Ultimatum

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RECOMMENDED READING

First, let's start with some recommended reading. These books will help you to understand more about artificial intelligence, specifically the opportunities the technology presents, the risks we face, and how we can prepare for a radically different future.
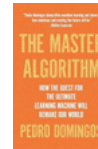
General AI reading

THE (ABSOLUTE) BEGINNERS' GUIDE TO AI
Paul Jamison

THE COMING WAVE
Mustafa Suleyman

THE MASTER ALGORITHM
Pedro Domingos

ARTIFICIAL INTELLIGENCE: A GUIDE FOR THINKING HUMANS
Melanie Mitchell

APPLIED ARTIFICIAL INTELLIGENCE: A HANDBOOK FOR BUSINESS LEADERS
Mariya Yao
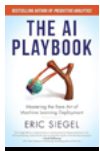
THE BUSINESS CASE FOR AI
Kavita Ganesan

RULE OF THE ROBOTS
Martin Ford

SUPERINTELLIGENCE
Nick Bostrom

HUMAN COMPATIBLE
Stuart Russell

THE AI PLAYBOOK
Eric Siegel
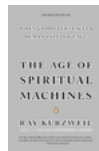
THE AGE OF SPIRITUAL MACHINES: WHEN COMPUTERS EXCEED HUMAN INTELLIGENCE
Ray Kurzweil

THE SINGULARITY IS NEAR: WHEN HUMANS TRANSCEND BIOLOGY
Ray Kurzweil
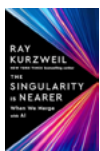
THE SINGULARITY IS NEARER: WHEN WE MERGE WITH AI
Ray Kurzweil

LIFE 3.0: BEING HUMAN IN THE AGE OF ARTIFICIAL INTELLIGENCE
Max Tegmark

AI books that are more technical

MACHINE LEARNING FOR ABSOLUTE BEGINNERS: A PLAIN ENGLISH INTRODUCTION
Oliver Theobald

ARTIFICIAL INTELLIGENCE: A MODERN APPROACH
Stuart Russell and Peter Norvig

HANDS-ON MACHINE LEARNING WITH SCIKIT-LEARN, KERAS & TENSORFLOW
Aurélien Géron

MAKE YOUR OWN NEURAL NETWORK
Tariq Rashid

AI TRAINING COURSES

Training is a great way to boost your AI skills, and the good news is that there is a wealth of free AI training available online from universities, tech companies, and YouTubers.

To learn more about artificial intelligence, machine learning, and related concepts and technologies, look no further than these online courses. Most are totally free to take, and they cover a wide range of topics including how AI works, how to use it, and for the more technical courses, how to build it.

AI Training

AI FOR EVERYONE, ANDREW NG
DeepLearning.AI (6 hours)

INTRODUCTION TO GENERATIVE AI LEARNING PATH
Google

INTRODUCTION TO ARTIFICIAL INTELLIGENCE
IBM (8 hours)

DEEP LEARNING LECTURE SERIES
DeepMind x UCL

BUT WHAT IS A NEURAL NETWORK?
3Blue1Brown

INTRODUCTION TO MACHINE LEARNING
AWS (30 mins)

NEURAL NETWORKS AND DEEP LEARNING
Andrew Ng, DeepLearning.AI (24 hours)

GENERATIVE AI FUNDAMENTALS
IBM (20 hours)

ARTIFICIAL INTELLIGENCE BEGINNERS GUIDE: WHAT IS AI?
SkillUp (1 hour)

FOUNDATIONAL COURSES IN MACHINE LEARNING
Google

CAREER ESSENTIALS IN GENERATIVE AI
Microsoft and LinkedIn

INTRODUCTIONS TO AI IN THE DATA CENTER
Nvidia (5 hours)

ARTIFICIAL INTELLIGENCE COURSES
edX

MACHINE LEARNING FOR ALL
University of London (21 hours)

AI STRATEGY AND GOVERNANCE
Penn University (9 hours)

AI FUNDAMENTALS FOR NON-DATA SCIENTISTS
Penn University (7 hours)

AI APPLICATIONS IN MARKETING AND FINANCE
Penn University (6 hours)

AI APPLICATIONS IN PEOPLE MANAGEMENT
Penn University (9 hours)

BIG DATA, ARTIFICIAL INTELLIGENCE, AND ETHICS
UC Davis (12 hours)

AI PROMPT ENGINEERING FOR BEGINNERS
Davidson College (3 hours)

AI PRODUCT MANAGEMENT
Duke University (4 months)

DATA ETHICS, AI AND RESPONSIBLE INNOVATION
University of Edinburgh (15 hours)

Technical AI Training

INTRODUCTION TO MACHINE LEARNING ON AWS
Amazon Web Services (6 hours)

GENERATIVE AI FOUNDATIONS ON AWS
Amazon Web Services (7 hours)

SUPERVISED MACHINE LEARNING: REGRESSION AND CLASSIFICATION
Andrew Ng (33 hours)

UNSUPERVISED LEARNING, RECOMMENDERS, REINFORCEMENT LEARNING
Andrew Ng (27 hours)

DEEP LEARNING SPECIALIZATION
Andrew Ng (130 hours)

GENERATIVE AI WITH LARGE LANGUAGE MODELS
DeepLearning.AI (16 hours)

INTRO TO TENSORFLOW FOR DEEP LEARNING
Google

GENERATIVE AI FOR DEVELOPERS LEARNING PATH
Google

MACHINE LEARNING ENGINEER LEARNING PATH
Google

INTRODUCTION TO ARTIFICIAL INTELLIGENCE WITH PYTHON
Harvard University (7 weeks)

ARTIFICIAL INTELLIGENCE FOR BEGINNERS – A CURRICULUM
Microsoft

AI LEARNING HUB
Microsoft

MICROSOFT AZURE AI FUNDAMENTALS
Microsoft

Additional Learning Resources

Here are some additional learning resources on AI that you might find valuable.

AI CANON

Tech-focused venture capital firm, Andreesen Horowitz, has assembled a set of resources on their website for people to learn more about AI, including how generative AI works, how to build large language models, and how to code your own AI. If you're looking to go deeper on AI, this is an excellent resource and jumping off point.
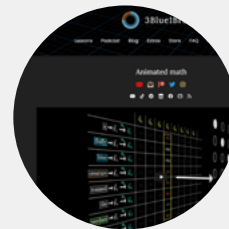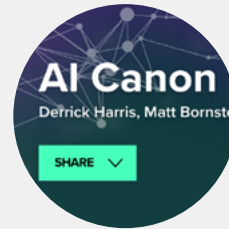
3BLUE1BROWN

You will find plenty of lessons and explainer videos on AI, mathematics, and physics here.

SENTDEX

A YouTube channel of over 1000 Python programming tutorials and related videos that start with the basics and then delve into machine learning, data analysis, robotics, and other topics.

AI VIDEO CONTENT

There is a lot of good AI content available on YouTube, and quite a bit that's bad, too. Here is a list of YouTube channels worth subscribing to for anyone interested to learn more about artificial intelligence:

AI News Channels

COLDFUSION
This channel covers interesting business and tech topics. They regularly create excellent videos on AI, robotics, and related technologies.

MATT WOLFE
Regular updates on AI news and new tools.

AI EXPLAINED
This UK-based channel digs into the technology advancements powering the latest in AI and provides analysis and informed speculation on future developments.

DWARKESH PATEL
Deep, thoughtful interviews with leaders in the AI world.

LEX FRIDMAN
MIT research scientist interviews luminaries in tech, global politics, and business. Lots of AI-focused content to choose from. Warning: some interviews are very detailed and can be over 3 hours long!

LEXCLIPS
Short clips from Lex Fridman's often-lengthy interviews to give you just the juiciest morsels.

TWO-MINUTE PAPERS
Regular showcase for research breakthroughs in AI by the always enthusiastic Dr Károly Zsolnai-Fehér. "What a time to be alive!"

DAVID SHAPIRO
Future thinking and thoughtful AI news analysis by a retired IT guy. Dry delivery, sometimes in a Star Trek uniform (!) but this is some of the most thought-provoking AI analysis you will find.

ANDREJ KARPATHY
Occasional videos on AI technology from the legendary researcher who worked at both Open AI and Tesla.

STANDFORD HAI
Talks from Stanford University on human-centered AI.

BBC CLICK
Popular BBC World TV show on future tech, including a good dose of AI.

AI Research Channels

GOOGLE DEEPMIND AI RESEARCH
Content from one of the best AI research labs on the planet.

OPEN AI RESEARCH
Videos from the other great AI research company.

AI AT META
Meta's pivot towards AI means a well-funded AI research lab.

NVIDIA
Videos on AI and Graphics from the AI heavyweight chipmaker.

MICROSOFT RESEARCH
It's not all AI, and it's Microsoft-centric, but worth an occasional visit.

Robot Channels

FIGURE
Great robot demos from the company to watch in the humanoid robot space.

AGILITY ROBOTICS
Cool robot videos Oregon-based company partnering with Amazon.

BOSTON DYNAMICS
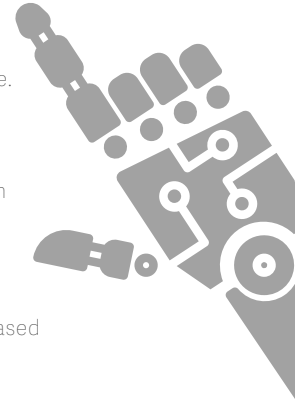Robot videos from a pioneer in the space.

SANCTUARY
Amazing robot videos from the Canadian robotics company.

FOURIER INTELLIGENCE
Another humanoid robotics company, based in Singapore.

Great videos to learn more about AI

INTRO TO LARGE LANGUAGE MODELS
Andrej Karpathy, the Stanford computer scientist who has worked at both Open AI and Tesla, explains how large language models work, how they are built, and their main uses. Mildly technical here and there, so non-techy people will need to persevere. Learn about pre-training, fine tuning, RLHF, scaling LLMs, LLM capabilities, tool use, security, and future research directions.

INTRODUCTION TO GENERATIVE AI
An explainer video from Google Cloud about Generative AI fundamentals.

INTERVIEW WITH JENSEN HUANG, CEO OF NVIDIA
This interview at Stanford University is filled with great insights on leadership, innovation, business culture, and of course Jensen's views on the future of artificial intelligence.

USING AI TO ACCELERATE SCIENTIFIC DISCOVERY
Talk by Google DeepMind CEO, Sir Demis Hassabis, on how AI can be used to solve a variety of problems. An excellent explainer on reinforcement learning and an overview on DeepMind and their technological breakthroughs. Talk beings at 7m 55s.

A.I. REVOLUTION
NOVA are known for their high-quality, science-based documentaries. This episode explores the early history of AI, its capabilities today, its many important applications, and the risks we face in the future. As a primer for AI beginners, this is a great resource.

DEMIS HASSABIS INTERVIEW
Demis Hassabis, CEO of Google DeepMind, talks about AI, scaling, AGI, LLMs, and more in a wide-ranging conversation with Dwarkesh Patel.

HARVARD BUSINESS REVIEW ON AI

For decades, Harvard Business Review has been a go-to resource for business leaders needing to elevate their game and learn how to bring change to their organizations. Over the last few years, HBR has delved into several AI-related topics, recognizing that the technology will bring dramatic change to every business. Many of the articles are available online for free. The links below will take you to the articles we recommend you read.

Building your AI strategy

- WHERE SHOULD YOUR COMPANY START WITH GENAI?
- GENERATIVE AI WILL CHANGE YOUR BUSINESS. HERE'S HOW TO ADAPT
- YOU NEED A GENERATIVE AI STRATEGY
- TURN GENERATIVE AI FROM AN EXISTENTIAL THREAT INTO A COMPETITIVE ADVANTAGE
- BUILD A WINNING AI STRATEGY FOR YOUR BUSINESS
- HOW TO CAPITALIZE ON GENERATIVE AI

Implementing AI

- A FRAMEWORK FOR PICKING THE RIGHT GENERATIVE AI PROJECT
- ONE SIZE DOESN'T FIT ALL: CHOOSING THE RIGHT APPROACH TO GENERATIVE AI
- MANAGING THE RISKS OF GENERATIVE AI
- CREATE WINNING CUSTOMER EXPERIENCES WITH GENERATIVE AI
- THE DUMB REASON YOUR AI PROJECT WILL FAIL
- CREATE AN ETHICS COMMITTEE TO KEEP YOUR AI INITIATIVE IN CHECK
- IS YOUR COMPANY'S DATA READY FOR GENERATIVE AI?
- 4 STEPS TO START MONETIZING YOUR COMPANY'S DATA
- YOUR ORGANIZATION NEEDS A PROPRIETARY DATA STRATEGY
- REMOVING DEMOGRAPHIC DATA CAN MAKE AI DISCRIMINATION WORSE

AI and your workforce

- HOW GENERATIVE AI WILL TRANSFORM KNOWLEDGE WORK
- AI SHOULD AUGMENT HUMAN INTELLIGENCE, NOT REPLACE IT
- HELPING EMPLOYEES SUCCEED WITH GENERATIVE AI
- GENAI WILL CHANGE HOW WE DESIGN JOBS
- HOW TO RESKILL YOUR WORKFORCE IN THE AGE OF AI
- CAN GEN AI DO STRATEGY?
- HOW AI IS HELPING COMPANIES REDESIGN PROCESSES
- GENERATIVE AI WILL TRANSFORM VIRTUAL MEETINGS

General AI articles

- THE CHALLENGES AND BENEFITS OF GENERATIVE AI IN HEALTHCARE
- HEAVY MACHINERY MEETS AI
- WE'RE ALL PROGRAMMERS NOW
- AI AND THE NEW DIGITAL COLD WAR

ONGOING LEARNING

The AI world is moving at a blinding pace. Staying up to date requires a commitment to ongoing learning on new AI capabilities, techniques, models, and news. You may want to consider setting aside a little time each week to stay up to date.

To help you stay in the know, here's a list of recommended podcasts and newsletters that you might consider subscribing to.

Podcasts

LAST WEEK IN AI

A pair of Stanford University students, now working in the AI industry, review relevant AI news of the week. While they both have technical backgrounds, the presenters focus on the business side of AI and discuss AI technology breakthroughs in a way that is accessible to anyone who knows a bit about AI. And if you're an AI newcomer, it's a great place to learn. They also run a weekly newsletter available by subscription, and a substack.

EYE ON A.I.

Craig Smith interviews a variety of people from the AI industry including AI company leaders, researchers, and academics. A good way to learn more about the AI sector, the technology behind it, and where it might be going next.

LEX FRIDMAN

Lex Fridman's lengthy interviews are available in podcast form as well as on his YouTube channel. Lex, an MIT researcher, interviews a wide range of people from the worlds of AI, politics, and business. His interviews are long and detailed, and he asks well-informed and insightful questions that will help you to understand topics in greater depth.
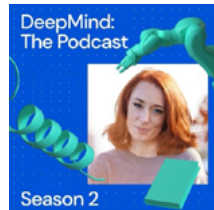
DEEPMIND: THE PODCAST

Although it was created in 2021 and 2022, this engaging podcast, hosted by TV presenter and PhD mathematician, Hannah Fry, is still highly relevant and explores AI in a way that's accessible to all listeners. With interviews with many DeepMind leaders and researchers you'll get insights from one of the top AI research labs on the planet. Polished, informative, and engaging, this is an excellent learning resource.

THE AI PODCAST

Produced by Nvidia, this podcast is an online favorite. Released every two weeks, episodes focus on the impact AI is having in the world, from law and healthcare to autonomous vehicles and firefighting.

DATA SKEPTIC

Intelligent conversation on data science, machine learning, artificial intelligence and other relevant topics by people working in the industry to implement solutions. Conversation is wide-ranging and the podcasts are organized in seasons, each with a theme. Interviews are with researchers and industry professionals.

Newsletters

If you prefer to read your news rather than listening to it or watching it, then signing up for an AI newsletter or two is a great way to stay connected with what's happening in the fast-moving world of AI. Here are some newsletters to consider.

TLDR AI
Release daily, this newsletter has sections on: Headlines and launches, research and innovation, engineering and resources, and miscellaneous content on AI. Stories include business news and links to technical AI research papers.

SYNTHETIC
Released weekly, this newsletter brings a roundup of AI news and analysis for business leaders and anyone wanting to learn more about AI and how it is changing our world. Stay fresh on the latest developments without overwhelming your inbox.

LAST WEEK IN AI
Released weekly, this provides a good overview of AI news and technology developments from the last week. Has a paid subscription tier if you want the newsletter delivered to your inbox. More of a technical lean to its content.
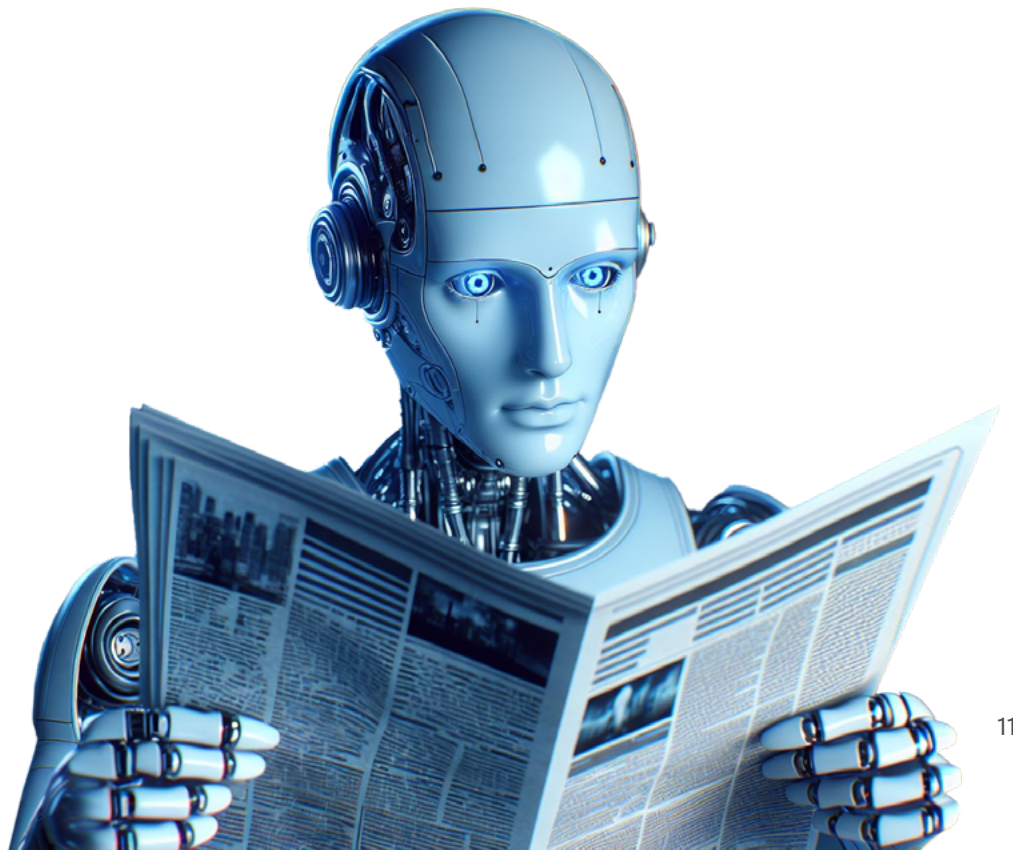
THE RUNDOWN
This popular daily newsletter showcases the latest AI developments and has over 500,000 subscribers. Contains news stories and links to AI tools.

THE NEURON
This daily newsletter takes a more lighthearted approach to AI news. You get some top headlines, some light analysis and opinion, and a bizarre cat theme that some people love, and others hate.

AI TOOLS

The generally accepted wisdom in business goes something like this: AI won't replace you, but people using AI will.

Learning how to get the most out of AI is just the next step in our personal journeys with technology. Historically, we have always needed to develop new technology skills to assure our continued relevance in the workplace, whether it was learning to use word processors and spreadsheets or mastering digital marketing tools and CRMs.

Whether you're just getting started with AI or a sophisticated user looking for new tools to make your life easier, here's a list of AI tools you might want to check out.

Chatbots and Search

PERPLEXITY
AI-powered search with real-time knowledge updates.

MICROSOFT COPILOT
AI chatbot, image generation, and new AI features for Office.

GEMINI
Google's AI chatbot, which will likely improve rapidly in the coming years.

ChatGPT
The AI chatbot that started it all.

CLAUDE
Anthropic's leading-edge chatbot

CHARACTER.AI
Interact with a range of AI characters, or create your own.

AI Tutors

KHANMIGO
Khan Academy's personalized tutor uses the Socratic teaching method (asking you questions to help you get to the answer yourself) to teach maths, science, economics, history, and civics. K-12 and AP-level courses. Also offers career counselling.

AI TUTOR
Educational aid with customized learning paths, multilingual support, and voice support for hands-free study.

STUDDY
Phone app lets you snap a picture of a math problem and get help with it.

DUOLINGO
Language app that uses AI and gamification to aid learning. Their Max level includes role play where you can practice conversations with multilingual AIs.

SOCRATIC
Google's AI tutor for math, science, literature, social studies, and more.

QUIZLET
Turns notes into flash cards, tests, and outlines. AI tutor quizzes and teaches you.

UP LEARN
AI-powered tutor for students in the UK taking GCSEs and A-Levels.

Content Creation

MIDJOURNEY
One of the best image generators out there.

MAIKA AI
Boost your writing productivity and speed content generation and consumption.

GRAMMARLY
An AI writing partner that helps you get your point across.

PIXELBIN
Real-time image transformations, optimizations, and digital asset management.

JASPER AI
AI copilot for marketing teams. Write blogs, copy, and much more.

RUNWAY
Generate and edit images and video.

ELEVENLABS
Text to speech in 29 languages. Ideal for video production/translation.

SYNTHESIA
Turn text into video in minutes.

SPLINE
Generate objects, animations, and textures using text prompts.

PIKA
Text to video, image-to-video, and video-to-video platform.

PIXA LABS
Portrait generation tool.

HEYGEN
Studio-quality AI-generated avatars and voices for demo videos.

DESCRIPT
Easy video and podcast editing with auto-transcribed scripts.

CANVA
Their Magic Design feature helps you create presentations, videos, and posts.

FRAMER
AI assistant to design and build websites.

10WEB
AI-powered website generation from a text prompt.

WIX
The web leader now has powerful AI website builder features.

MIXO
Another website generator that builds content from a simple description.

DURABLE
Another text to website company that claims it builds websites in 30 seconds.

Business Operations Acceleration

LAXIS AI
An excellent meeting assistant for revenue teams.

RECLAIM AI
AI scheduling optimizes team productivity, collaboration & work-life balance.

NOTION
Popular connected workspace tool now with powerful AI features.

SEAMLESS AI
AI-powered prospecting tool for lead generation.

HIRELOGIC
AI assistant that aids the interview process.

MANIFEST AI
Chatbot that integrate on your Shopify website that boosts conversion.

FIRSTBASE.IO
AI-powered tool to help people launch and run a U.S. business.

SHOEBOXED
AI-powered receipt scanner and organizer. Perfect business expense management platform, and for individuals at tax time!

BROWSE AI
Extract and monitor data from any website (competitor pricing, travel information, or anything you need) with their AI robot.

THIRSTYSPROUT
AI-powered platform to hire tech talent.

SUPPORTBENCH
Turbo charge your customer support team and helpdesk with AI.

CHATPDF
Drag and drop a PDF document and then ask the bot questions about it.

SANEBOX
AI to help you manage your inbox and boost email productivity.

SOFTR
Turn spreadsheets and databases into client portals and internal tools. No coding.

Presentation Generators

These AI-powered presentation tools help you get to a first pass outline and content quickly and easily. Worth exploring, especially as they will only get better with time.

- BEAUTIFUL.AI
- PREZI AI
- CANVA
- SLIDEBEAN
- GAMMA
- POPAI
- TOME
- DECKTOPUS
- WONDERSLIDE
- SLIDES AI
- STORYDOC
- VISME

Music Generators

These AI music generators create songs in seconds from text prompts. Most give you control over instrument choices, mood, tempo, and so on.

- AIVA
- BEATHOVEN
- MUBERT
- LOUDLY
- SOUNDRAW
- BOOMY
- SUNO
- SOUNDFUL
- HYDRA
- AMADEUS CODE

Code Generators

GITHUB COPILOT
The world's most widely adopted AI developer tool, according to Microsoft.

CODEX
Open AI's tool to translate natural language into code.

REPLIT GHOSTWRITER
Collaborative code generation and debugging.

DEVIN
An AI-powered software engineer from Cognition. You may have to join a waitlist.

TABNINE
AI coding assistant that does code completion. Used by Facebook and Google.

CODEWHISPERER
Amazon's code generator with enhanced code security.

ASKCODI
Helps developers to write better, shorter code with fewer mistakes.

CODET5
Open AI code generator from Salesforce Research that supports Java, Python, JavaScript and other languages.

CODEIUM
AI-powered coding assistant trained on over 70 languages that is free for individual use.

CODY
AI coding assistant powered by Anthropic's Claude platform.

CODEPAL
Sophisticated coding assistant that's easy to use and supports all major languages.