AI Creative Resources
(MUSIC)

Easiest to use: Commercial tools:
(Standalone Applications)

Creating complete music:

- boomy : https://boomy.com/
- AIVA: https://www.aiva.ai/
- Mubert: https://mubert.com/
- Beatoven: https://www.beatoven.ai/

Creating single instrument or MIDI music:

- Tone Transfer: https://sites.research.google/tonetransfer
- Magenta (lot of interesting demos): https://magenta.tensorflow.org/demos/
- Music VAE (Magenta) (browser demos at the bottom) - https://magenta.tensorflow.org/music-vae

Synthesizing Voices:

- Uberduck: https://uberduck.ai/
- Resemble: https://www.resemble.ai/
- VoctroLabs: (demo): https://www.voiceful.io/demos.html
- Synthesizer V: https://dreamtonics.com/synthesizerv/

Colab Notebooks / HuggingFace:

- Jukebox (OpenAI)
  https://colab.research.google.com/drive/1gWP6fSqd_vs65tI5uOGcJssGqTq2YWzO?usp=sharing

- Riffusion:
  https://huggingface.co/riffusion/riffusion-model-v1

  https://colab.research.google.com/drive/1_aIoS9DYietlVfDWKNcWjH_OFZCRGNFF

  (web demo version) - https://www.riffusion.com/

- Rave:

https://colab.research.google.com/drive/1ih-gv1iHEZNuGhHPvCHrleLNXvooQMvI?usp=sharing
More info and troubleshooting at: https://github.com/acids-ircam/RAVE

MAX MSP library for RAVE: https://github.com/acids-ircam/nn_tilde

- Google Magenta (Generating melodies / drum tracks / timbre style transfer) https://magenta.tensorflow.org/demos/colab/

- DDSP

    - Colab for converting audio (pre-trained models available) https://colab.research.google.com/github/magenta/ddsp/blob/master/ddsp/colab/demos/timbre_transfer.ipynb

    - Colab for training your own model: https://colab.research.google.com/github/magenta/ddsp/blob/main/ddsp/colab/demos/Train_VST.ipynb

    - (48khz, stereo version) converting any audio into one of (saxophone / trumpet / flute or your own trained model): https://colab.research.google.com/github/FlexCouncil/DDSP-48kHz-Stereo/blob/master/ddsp/colab/ddsp_48kHz_stereo1.ipynb

Miscellaneous Collection of Tools:

- https://creative-ai.org/stages

- RunwayML Studio - https://runwayml.com/

- https://ml4a.net/
  Gene Kogan's curated notebooks/models/tutorials and lessons

More Experimental Tools:

Plugins for an Audio Workstation:

- Neutone: https://neutone.space/
- MAWF plugin: https://mawf.io/
- Magenta plugin: https://magenta.tensorflow.org/demos/native/
- RAVE (realtime audio VAE) - colab and plugin available: https://github.com/acids-ircam/RAVE

- GuitarML: https://github.com/GuitarML/SmartGuitarAmp
- CataRT: https://ircam-ismm.github.io/max-msp/catart.html

Extra Resources (If you wish to explore deeper)

Visual:

Setting up Stable Diffusion:

- Automatic1111 repo: https://github.com/AUTOMATIC1111/stable-diffusion-webui
- Running without installing anything (within colab or alternate): https://github.com/AUTOMATIC1111/stable-diffusion-webui/wiki/Online-Services
- Video Tutorial (step by step for local install): https://www.youtube.com/watch?v=3cvP7yJotUM&ab_channel=OlivioSarikas

Mayukh's work:
https://github.com/Mayukhdeb/torch-dreams

https://colab.research.google.com/github/Mayukhdeb/torch-dreams-notebooks/blob/main/docs_notebooks/hello_torch_dreams.ipynb

https://github.com/abraham-ai/eden

3d photography inpainting
https://shihmengli.github.io/3D-Photo-Inpainting/
https://colab.research.google.com/drive/1706ToQrkIZshRSJSHvZ1RuCiM__YX3Bz

CLIP + VQGAN
https://colab.research.google.com/drive/1go6YwMFe5MX6XM9tv-cnQiSTU50N9EeT?fbclid=IwAR30ZqxIJG0-2wDukRydFA3jU5OpLHrlC_Sg1iRXqmoTkEhaJtHdRi6H7AI#scrollTo=CppIQlPhhwhs

CLIP guided Diffusion
https://colab.research.google.com/drive/12a_Wrfi2_gwwAuN3VvMTwVMz9TfqctNj#scrollTo=-_UVMZCIAq_r

https://github.com/openai/CLIP
https://github.com/crowsonkb/guided-diffusion

(512 x 512 version)
https://colab.research.google.com/drive/1QBsaDAZv8np29FPbvjffbE1eytoJcsgA

Image upscaling
https://github.com/n00mkrad/cupscale

GAN-gealing (adding elements to an image - tattoos on a face in a video - object lenses)
https://colab.research.google.com/drive/1JkUjhTjR8MyLxwarJjqnh836BICfocTu?usp=sharing

Have I been trained on (opting in or out of AI art datasets)
https://haveibeentrained.com/

Sound:

ML4A - Text to Speech:
https://colab.research.google.com/github/ml4a/ml4a/blob/master/examples/models/tacotron2.ipynb#scrollTo=Eq02AOmgSD9D

Web demos from Magenta:
https://magenta.github.io/magenta-js/music/demos/

DDSP (48khz, stereo version):
https://colab.research.google.com/github/FlexCouncil/DDSP-48kHz-Stereo/blob/master/ddsp/colab/ddsp_48kHz_stereo1.ipynb

Ben Hayes' work:
https://github.com/ben-hayes/catecophony (Grain resynthesizer)
https://colab.research.google.com/github/ben-hayes/neural-waveshaping-synthesis/blob/main/colab/NEWT_Timbre_Transfer.ipynb
(Neural waveshaping synthesis)

takes an input MP3/FLAC file and outputs an acapella version as a WAV using the power of NVIDIA's RTX Voice (only on Windows + NVIDIA?)
https://github.com/amirldn/rtx-voice-script

Text:

Service for AI co-writing, generating text completions.

https://cohere.ai/

Chat GPT: https://chat.openai.com/

Multiple AI Lyrics generators on the web.