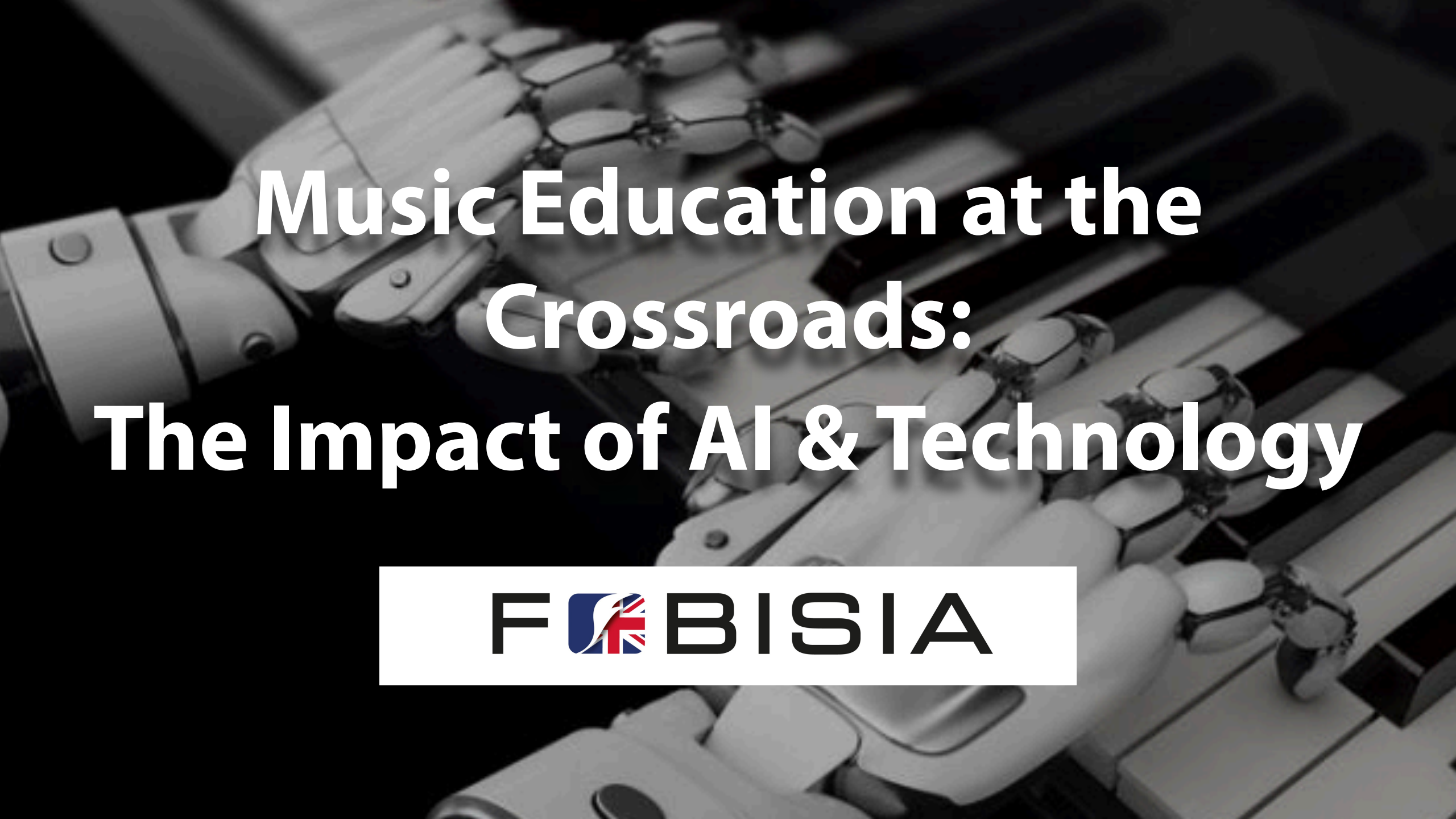

Music Education at the Crossroads: The Impact of AI & Technology

FBISIA

Dr. Jim Frankel
Founder/Director
www.musicfirst.com
Blog: www.jamesfrankel.com
Podcast: soundcloud.com/musicfirstpodcast

A quick commercial…

MusicFirst Classroom
Welcome Jim Frankel

My Classes

+ Create a Class

Auralia & Musition First (Introductory)

Gradebook | Calendar | Discussions

Drum Channel Level 100

Gradebook | Calendar | Discussions

Habits of a Successful Beginner Band Musician Lesson Plans

Gradebook | Calendar | Discussions

Habits of a Successful Choral Musician

Gradebook | Calendar | Discussions

Software | Resources | Content | My Classes | Jim Frankel | Support | Logout

Auralia
Flat for Education
Focus on Sound
Focus On Sound (US)
Hyperscore
MusicFirst Recorder
Musition
Naxos MusicBox
NML Essentials
Noteflight
OGenPlus
PracticeFirst
Sight Reading Factory
Soundation Education
Soundtrap
YuStudio

in which skills are introduced.

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Visit the companion website (www.habitsstrings.com) for even more supplemental resources.

2 Questions

Exercise #39. It's Raining — 1 Task — Lesson

Microphone Quiz — Task

Music Symbols Quiz — 10 Questions — Assessment

Performance #2 — Task

Software | Resources | Content | My Classes | Jim Frankel | Support | Logout

Incredibox

InTune Monthly

InTune Monthly (Teacher)

Metronome - Tuner

Music Tech Helper

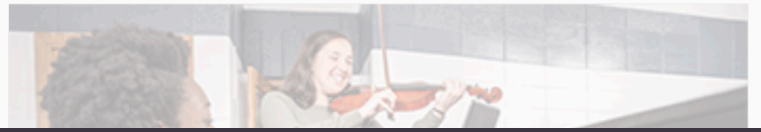
MusicEDU

MusicTheory.net

TeachRock

YouDJ for Education

Explore the Library:



MusicFirst Library

The MusicFirst Library offers a broad range of courses, units, lessons, and assessments carefully curated by a team of expert music educators. These materials are ready for immediate use in your classroom, and can also be customized to suit your curriculum.

Explore the Library:

Band >

Chorus >

Orchestra >

Music Theory >

General Music >

Modern Band >

Extra tests

Flute discussion 1

Pass | End test | Q. 1/1

Compare these two recordings of a flute. You can either discuss it in class or type short descriptions (or both). You can mention the types of music, as well as the other instruments playing. You might want to use words and terms like virtuoso, broken chords, long notes, trill, swing, etc.

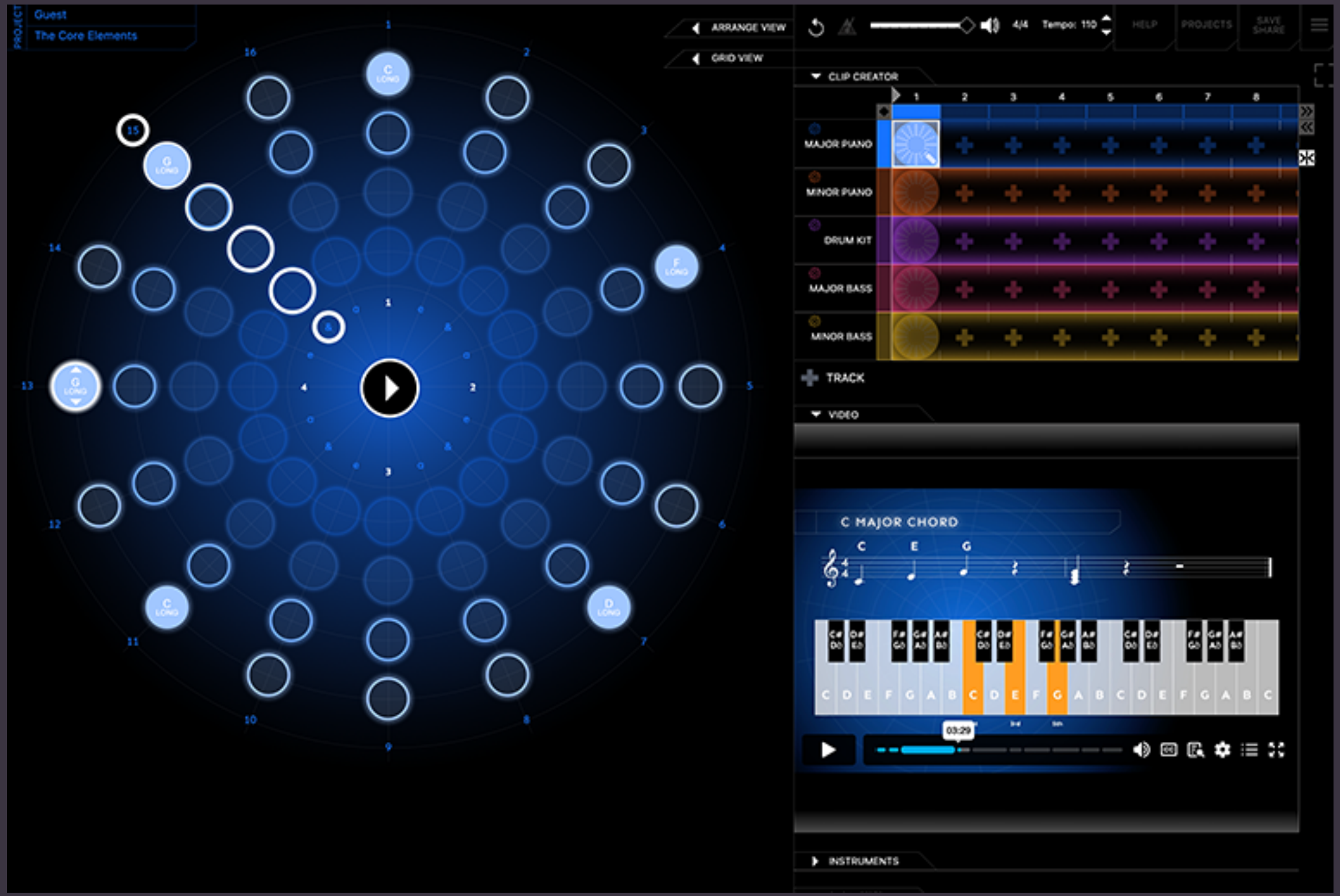
Audio clip 1

Audio clip 2

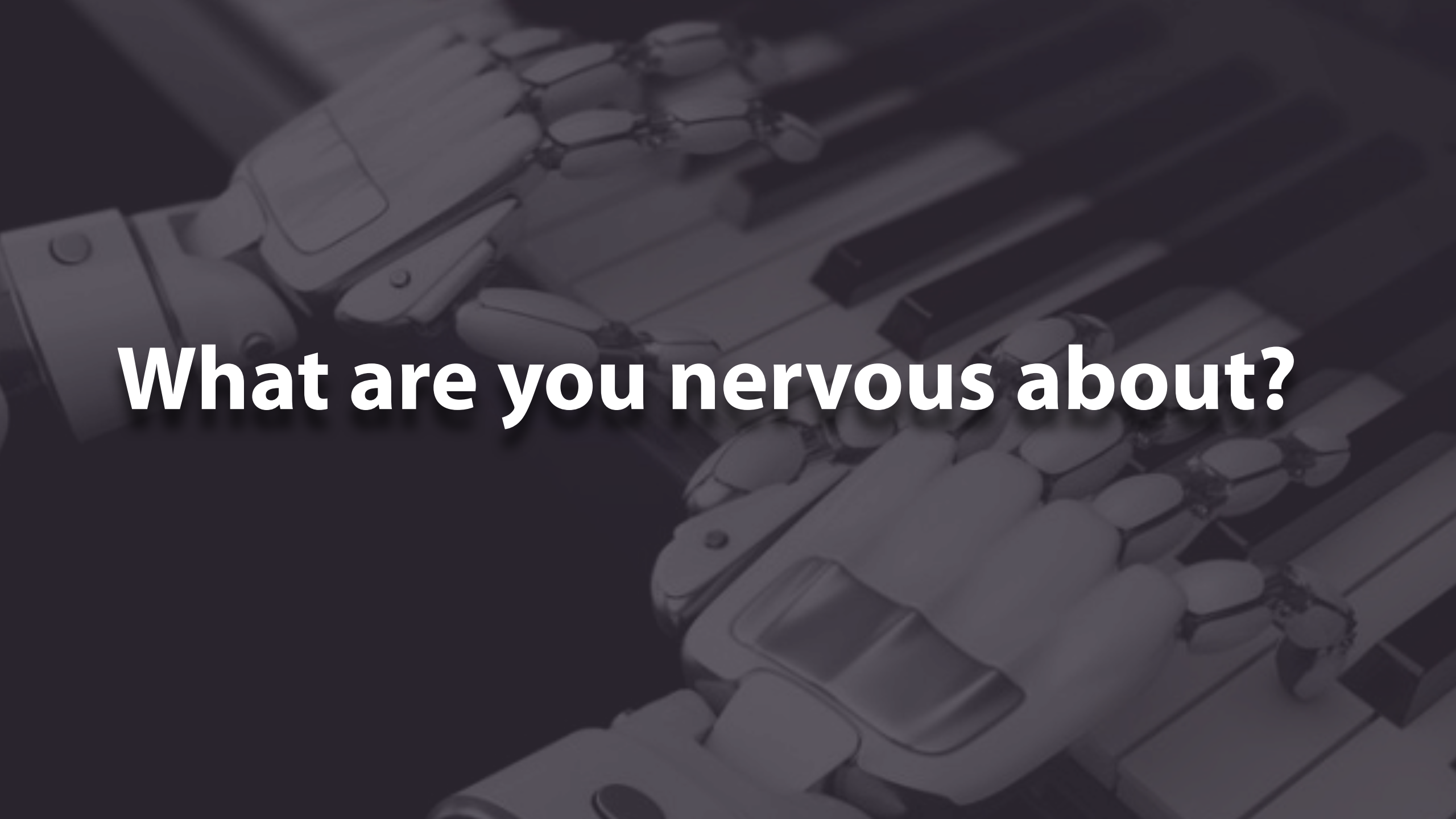
The first recording seems to be of jazz music. The player is improvising but keeps repeating notes. I can hear a rhythm section in the background.

The second recording is of some kind of classical music. The flute player is unaccompanied to start with. It is very difficult, virtuosic music.

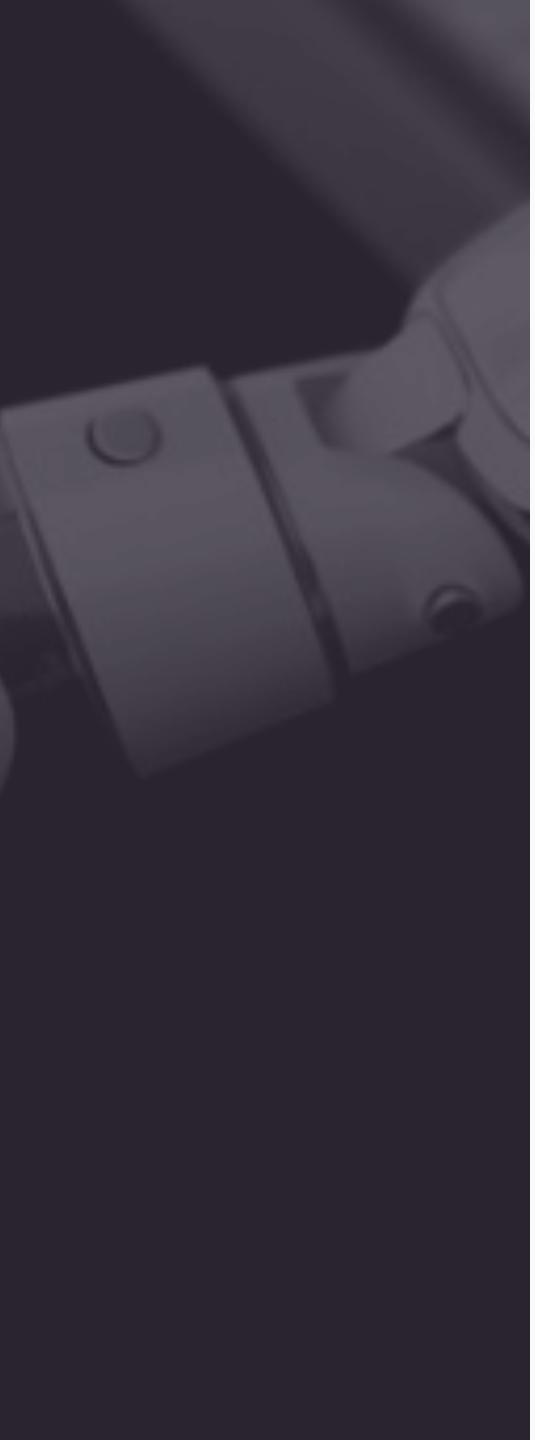
Save answer


PROJECT
Guest
The Core Elements
ARRANGE VIEW
GRID VIEW
4/4
Tempo: 110
HELP
PROJECTS
SAVE SHARE
CLIP CREATOR
MAJOR PIANO
MINOR PIANO
DRUM KIT
MAJOR BASS
MINOR BASS
TRACK
VIDEO
C MAJOR CHORD
C E G
03:29
INSTRUMENTS

When it comes to AI, what are you excited about?


What are you nervous about?

A BIG AI Announcement...



PLAYGPT

Who needs to Practice?

PLAYGPT

Who needs to Practice?

Woodwinds

Brass

Strings

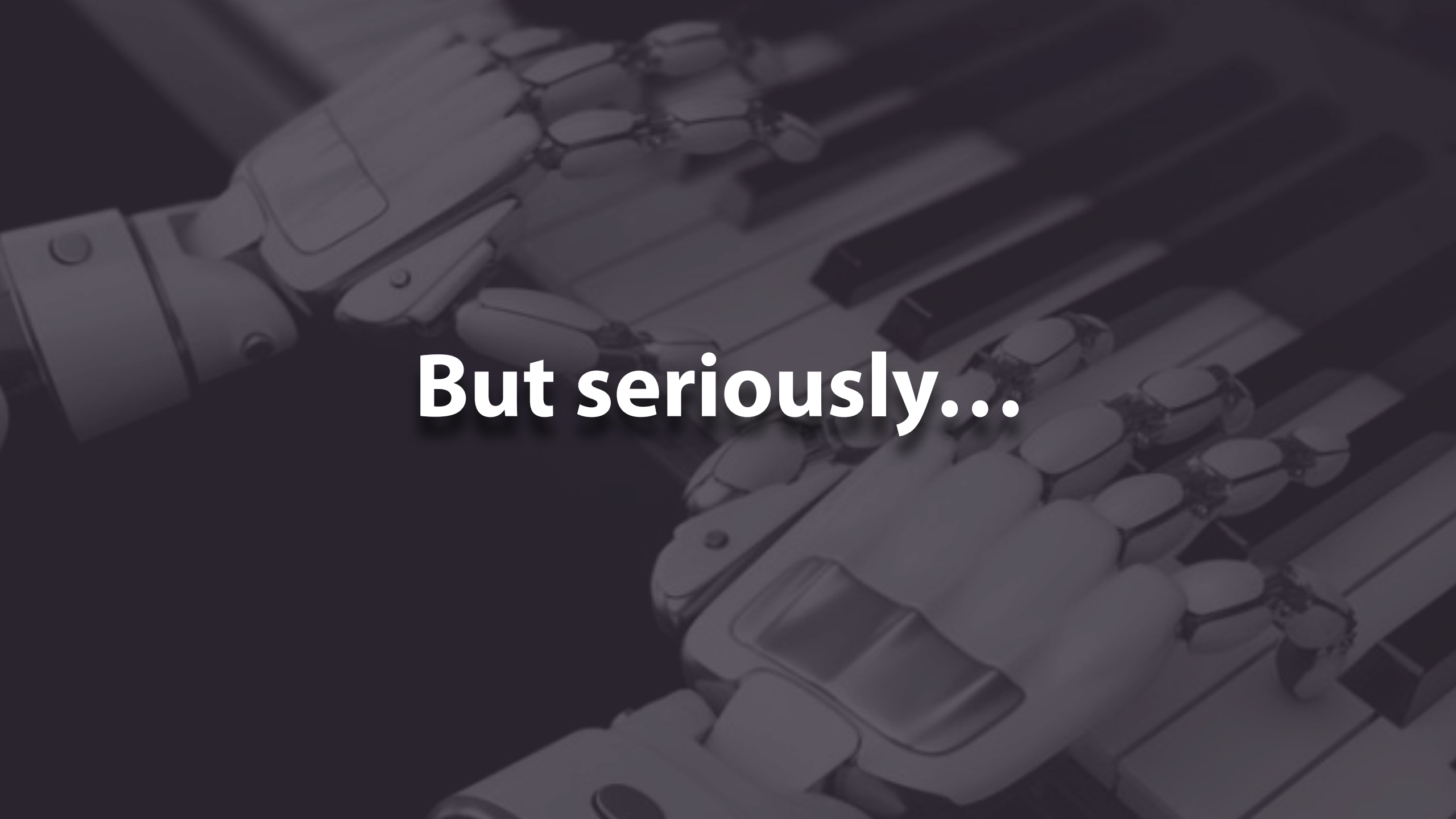
Percussion

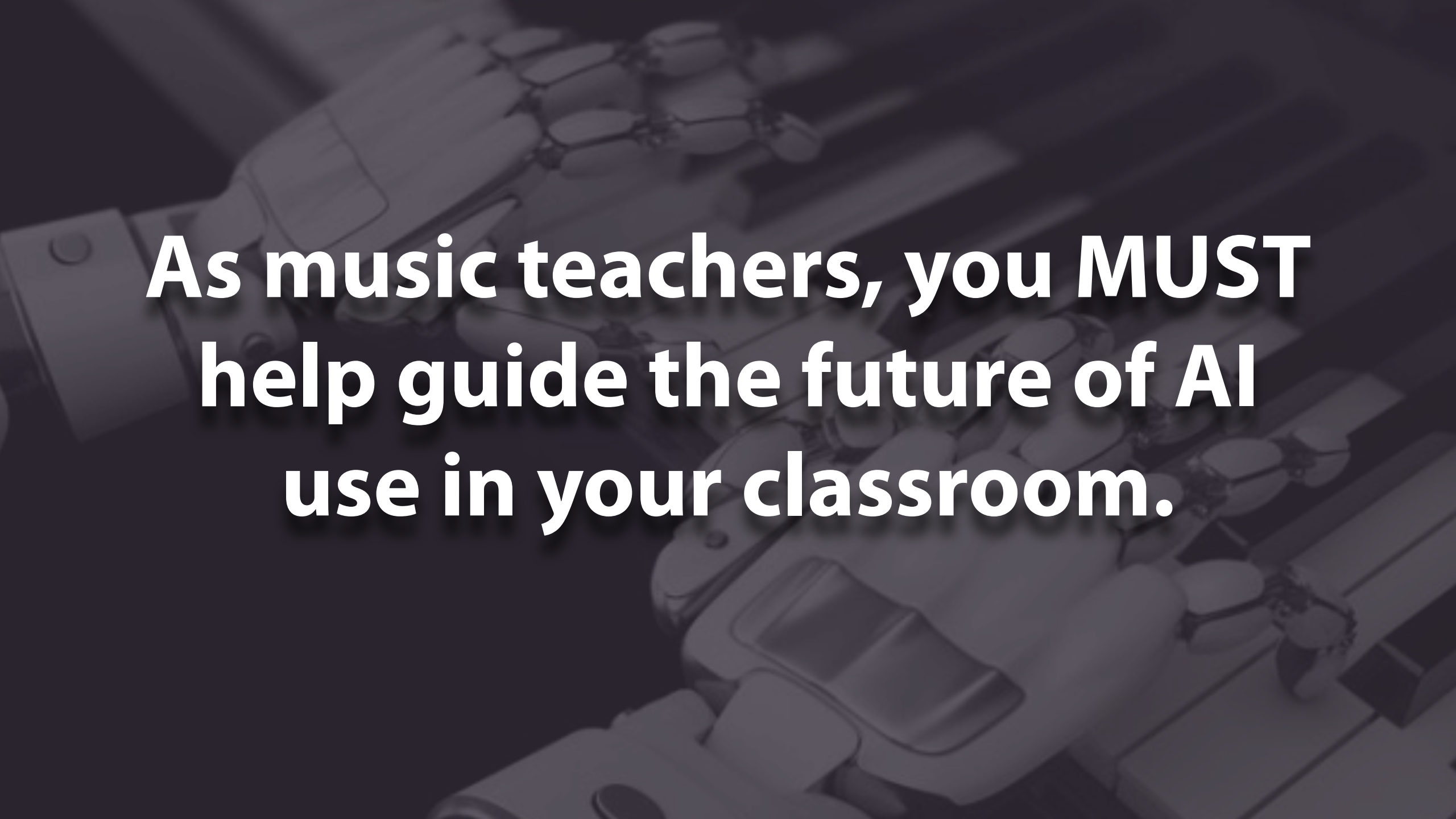
Upload Music	Upload Music	Upload Music	Upload Music
Play Music	Play Music	Play Music	Play Music
Audition	Audition	Audition	Audition

Play Gloves

Play Baton

Play Face


But seriously…


As music teachers, you MUST help guide the future of AI use in your classroom.

WHAT IS A.I.?

- Artificial Intelligence
  - Alan Turing - Oxford
  - Arthur Samuel - MIT/Stanford
  - John McCarthy - Stanford
  - Marvin Minsky - MIT

- It's been around since the **1950**'s
- Companies like Amazon, Facebook & Google have been using it for YEARS

Common AI Terms

GPT - Generative Pre-trained Transformer

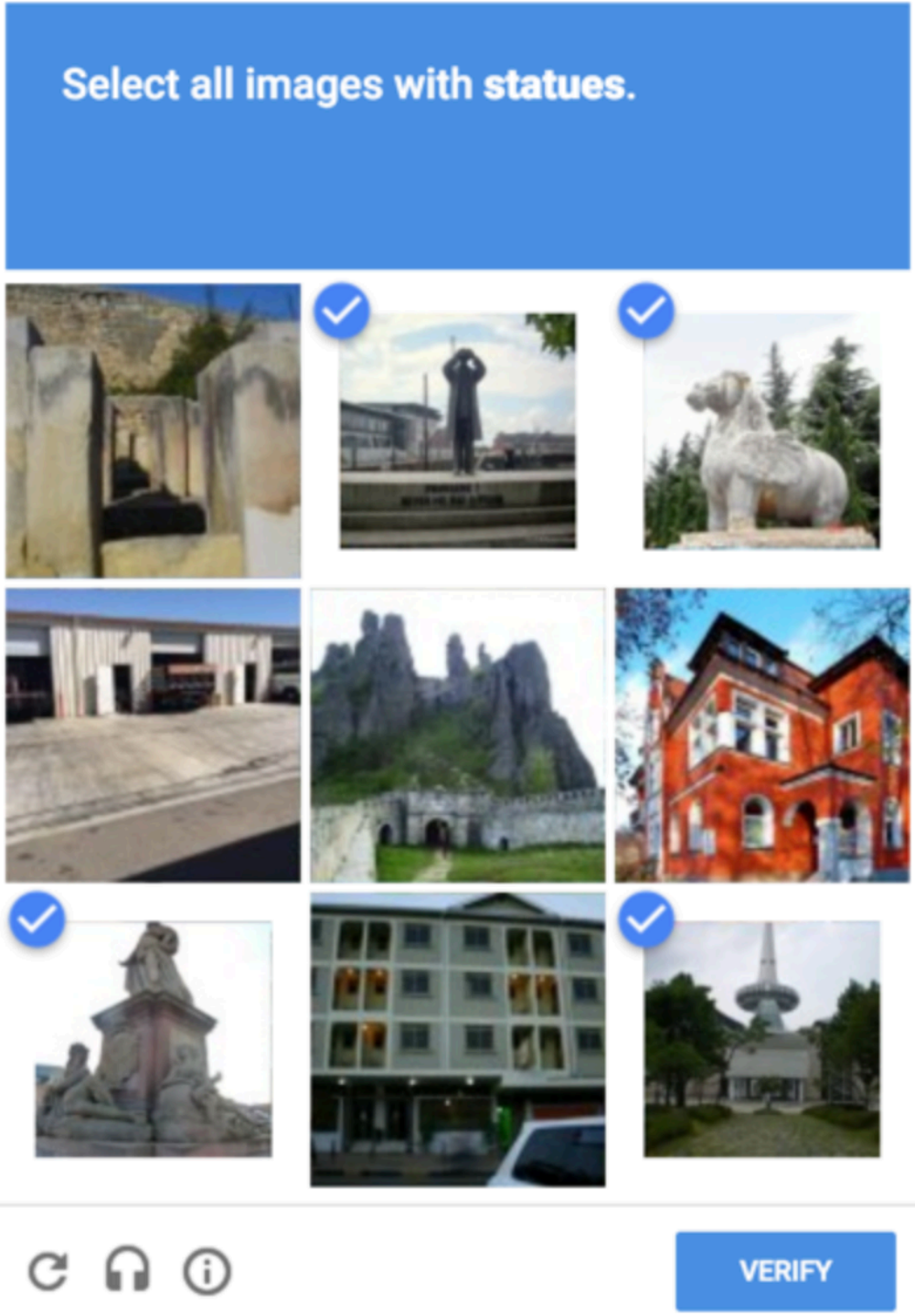
LLM - Large Language Models

NLP - Natural Language Processing

ML - Machine Learning

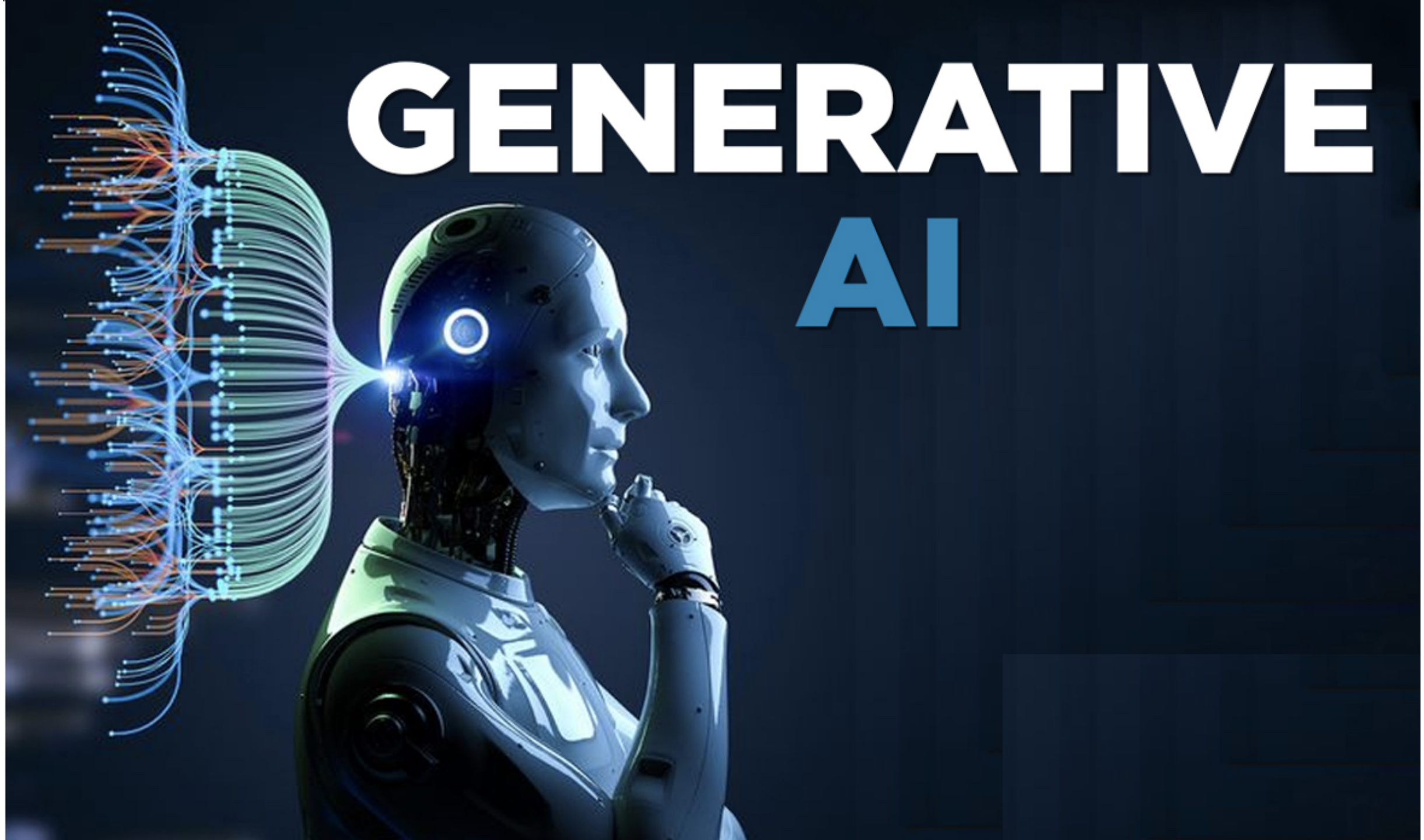
Deep learning

VFM - Visual Foundation Models



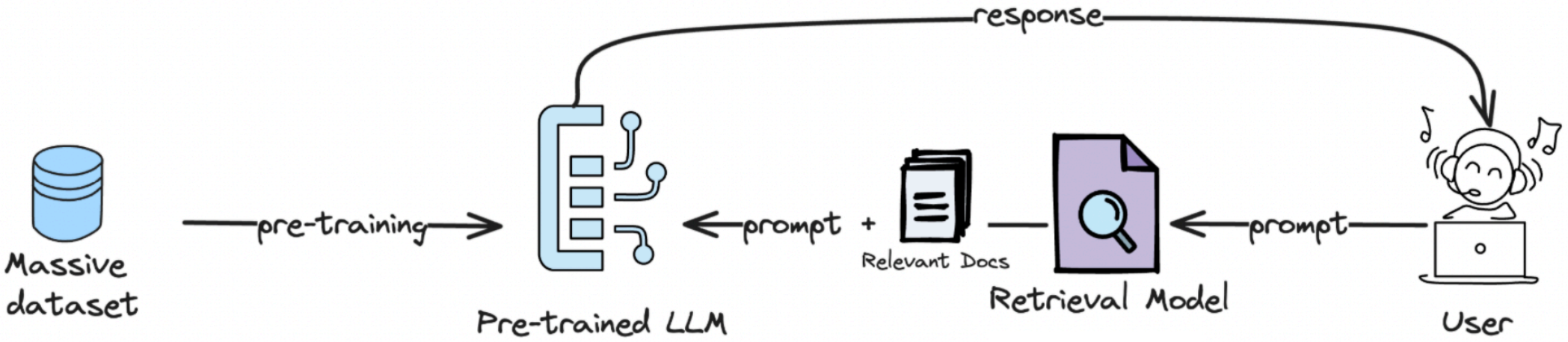
We've been training AI all along…

AI is all around us.
ChatGPT made us realize it.

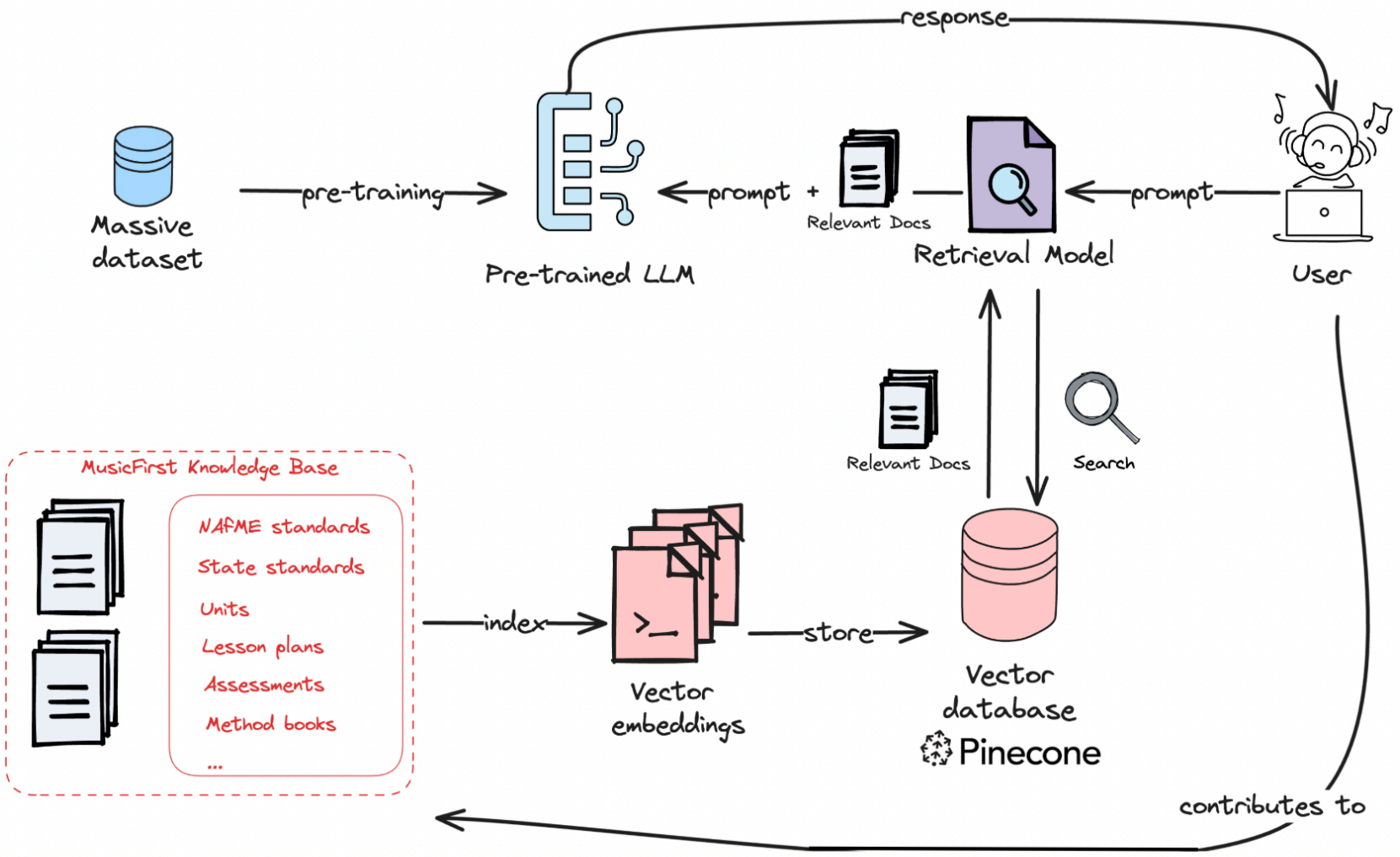

GENERATIVE
AI

It’s all about DATA

How does Generative AI actually work?



What is RAG - Retrieval Augmented Generation?



ChatGPT 4o

JI

Today

AI Music Practice Image

Previous 7 Days

AI Tools for Musicians

JEN AI Music Platform

Previous 30 Days

Laurie McDermott Recommendati

Modern Slavery Statement Rewrit

Persuade to Read Book

Visual Model of Melody

June

Braces Advice for Trumpet

Create visual fingering chart.

Resources for Make Music

AI Music Copyright Image

Renew Plus

Activities to make friends in new city

Study vocabulary

Text inviting friend to wedding

Python script for daily email reports

Message ChatGPT

ChatGPT can make mistakes. Check important info.

?

Claude

Using limited free plan Upgrade

Good afternoon, Jim

Please listen to my performance of London Bridge Is Falling Down and provide me with detailed feedback on my performance as well as some suggestions on how I can improve.

Claude 3.5 Sonnet

Use shift + return for new line

Collaborate with Claude using documents, images, and more

Add content

Your recent chats

View all →

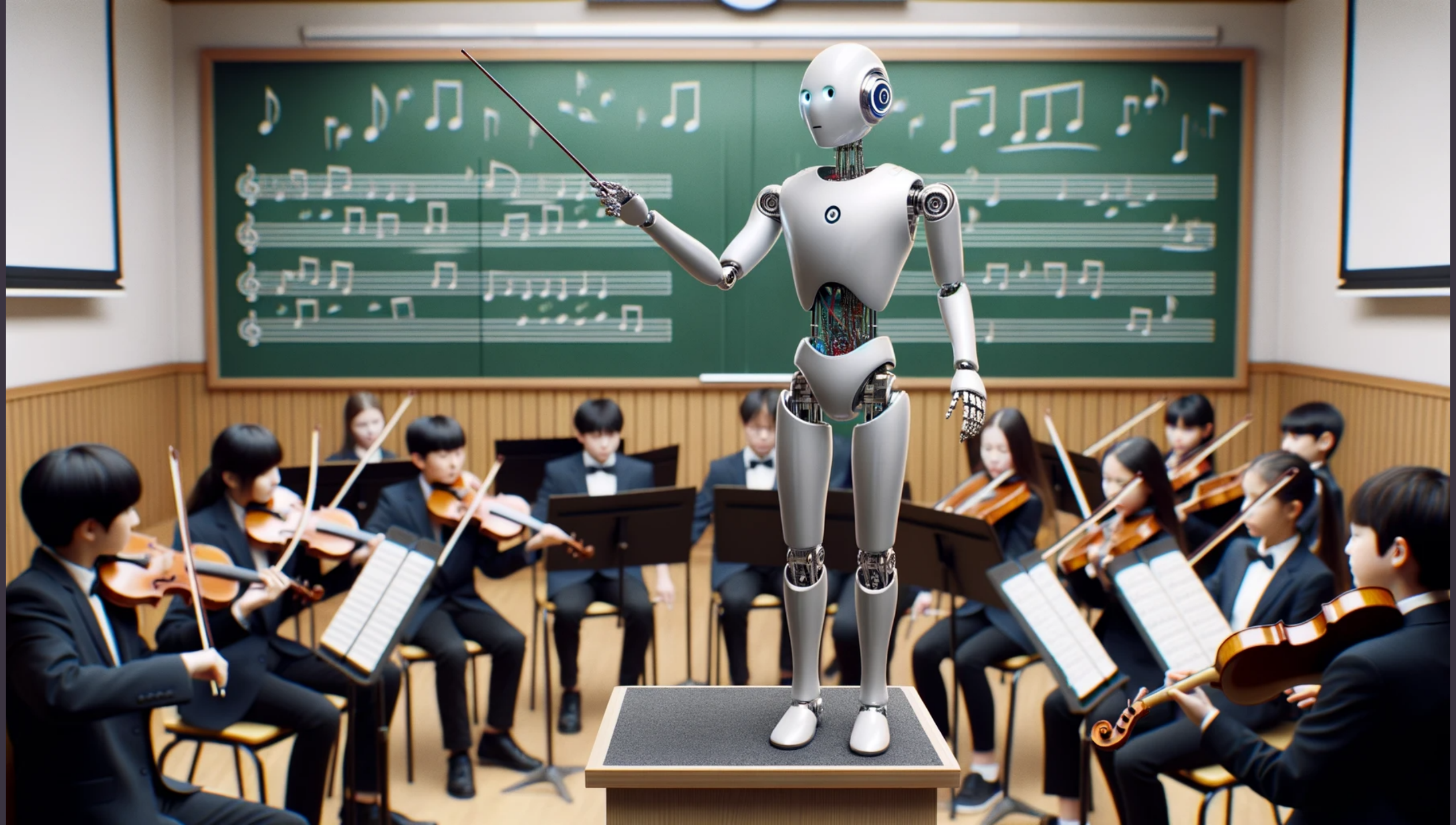
- Moises AI: Transforming Music Education — 1 month ago
- Middle School Songwriting Lesson... — 2 months ago
- Music Education Book Recommendation... — 2 months ago
- Visualizing Melodic Music — 2 months ago
- Amadeus vs. Mozart's Final Years — 2 months ago
- Mock NYSSMA Grade 5 Cello Audition — 2 months ago

JF

All videos in this video were generated directly
by Sora without modification.

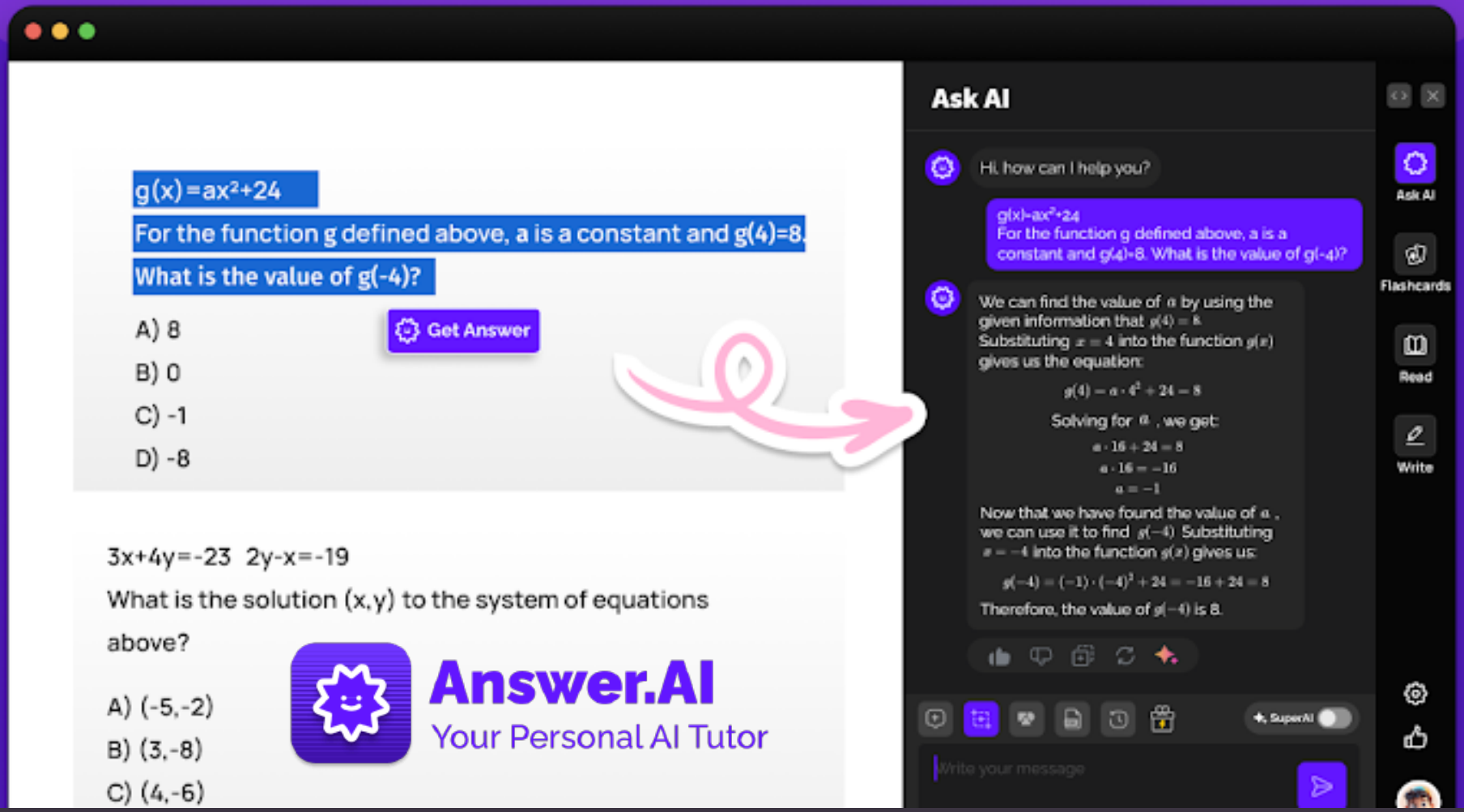
SORA

DALL-E 3

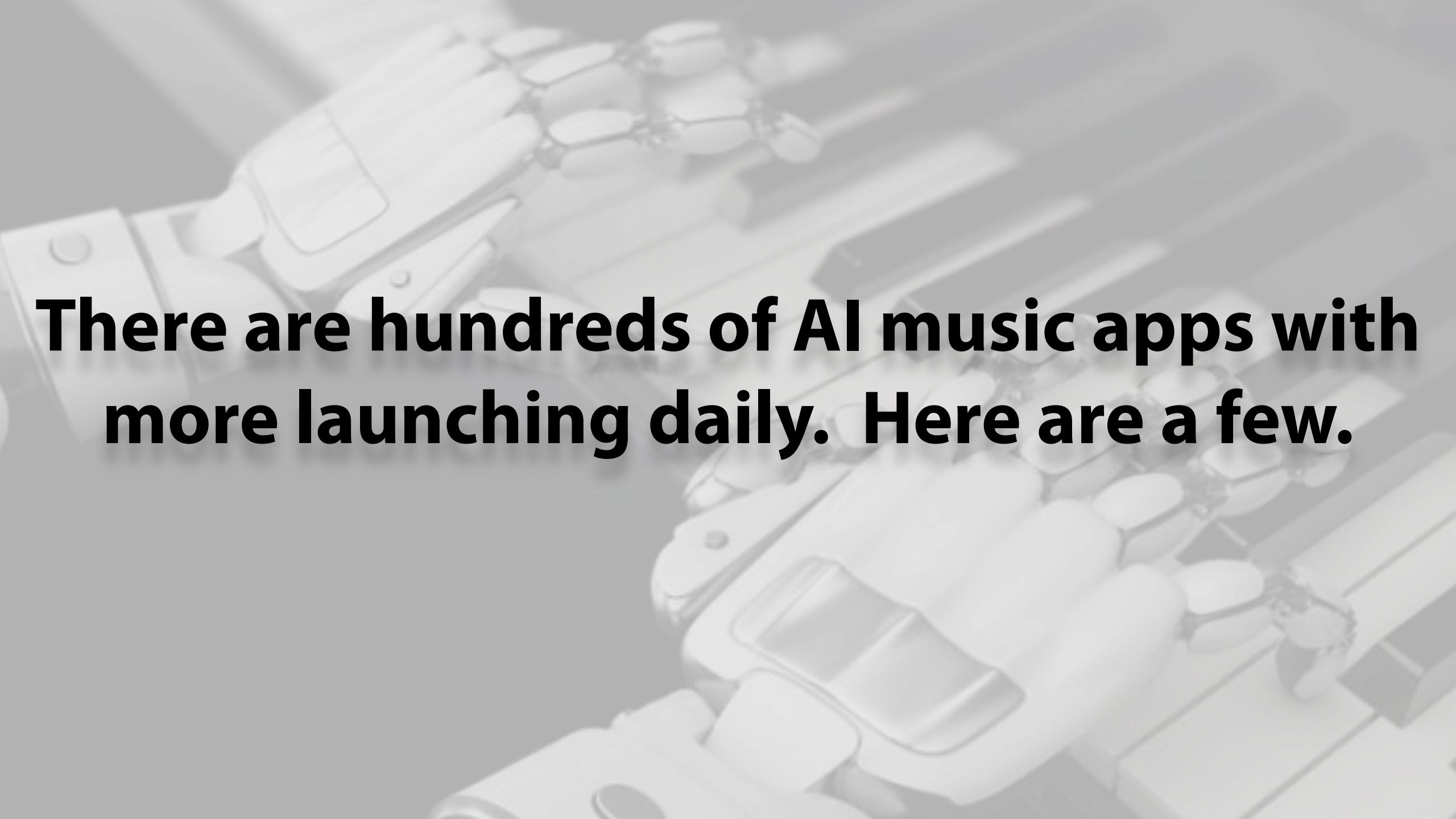


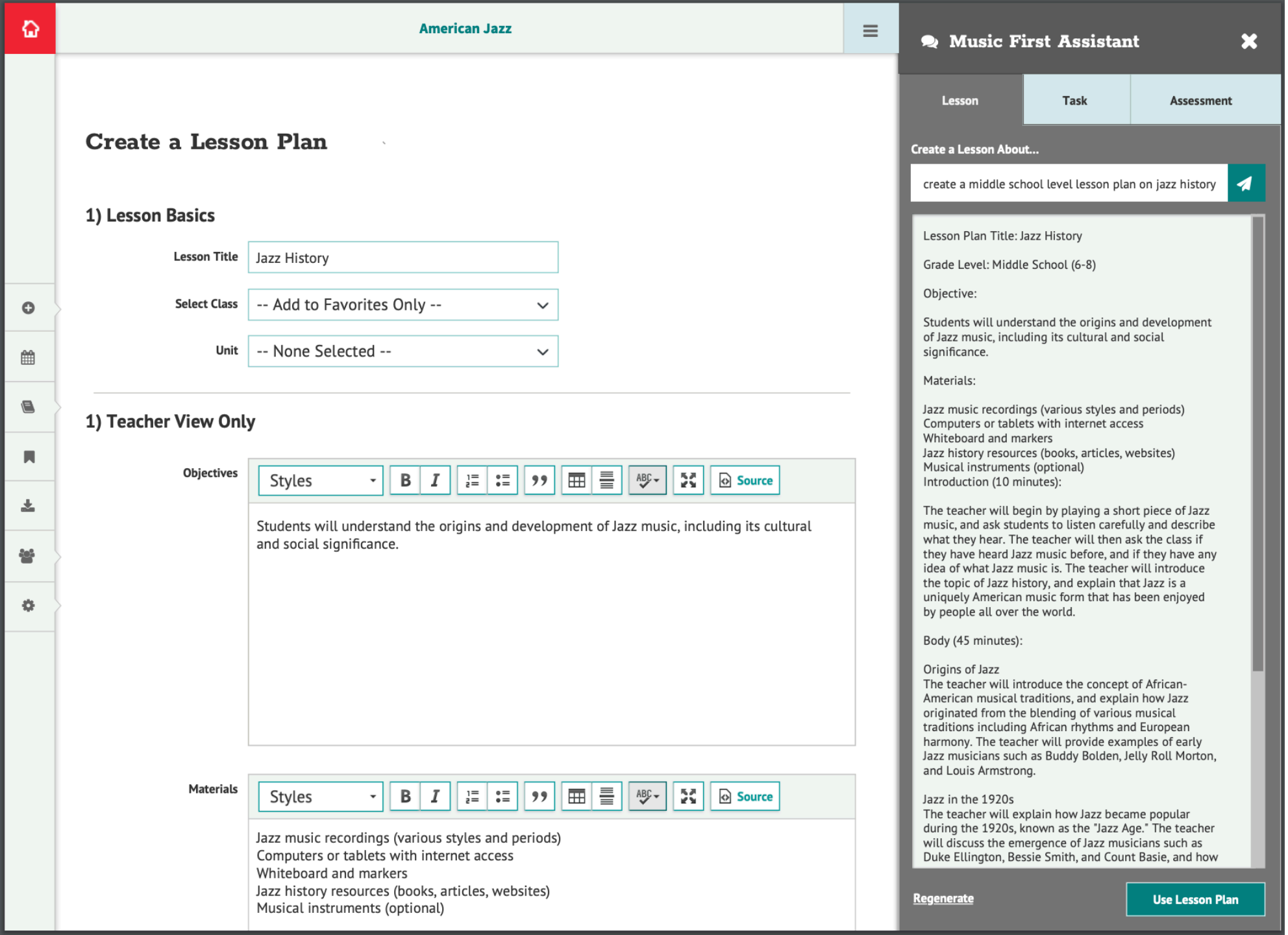
🥳 Best Homework AI Tutor Ever

Snap the question, get answers and step-by-step explanations instantly.

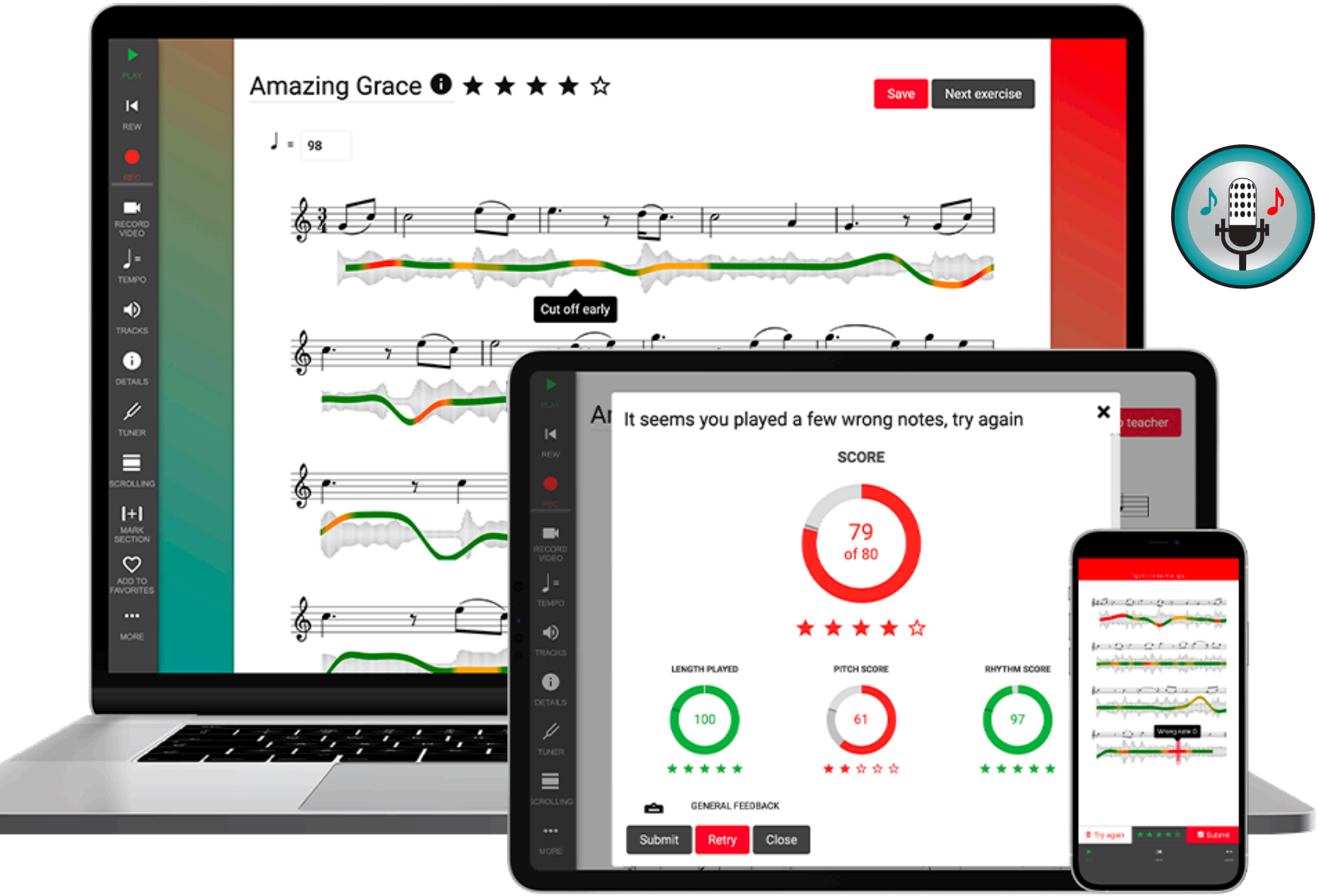


AI in Music Software


There are hundreds of AI music apps with more launching daily. Here are a few.



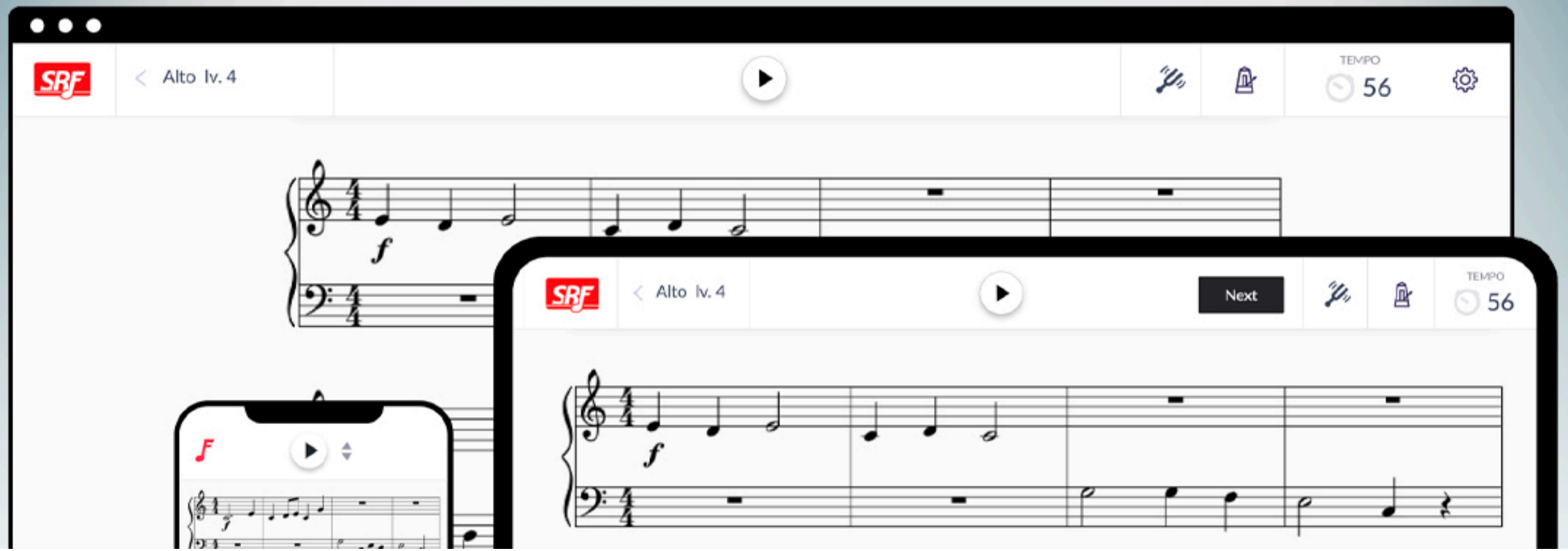
ChatGPT integration into the MusicFirst Classroom

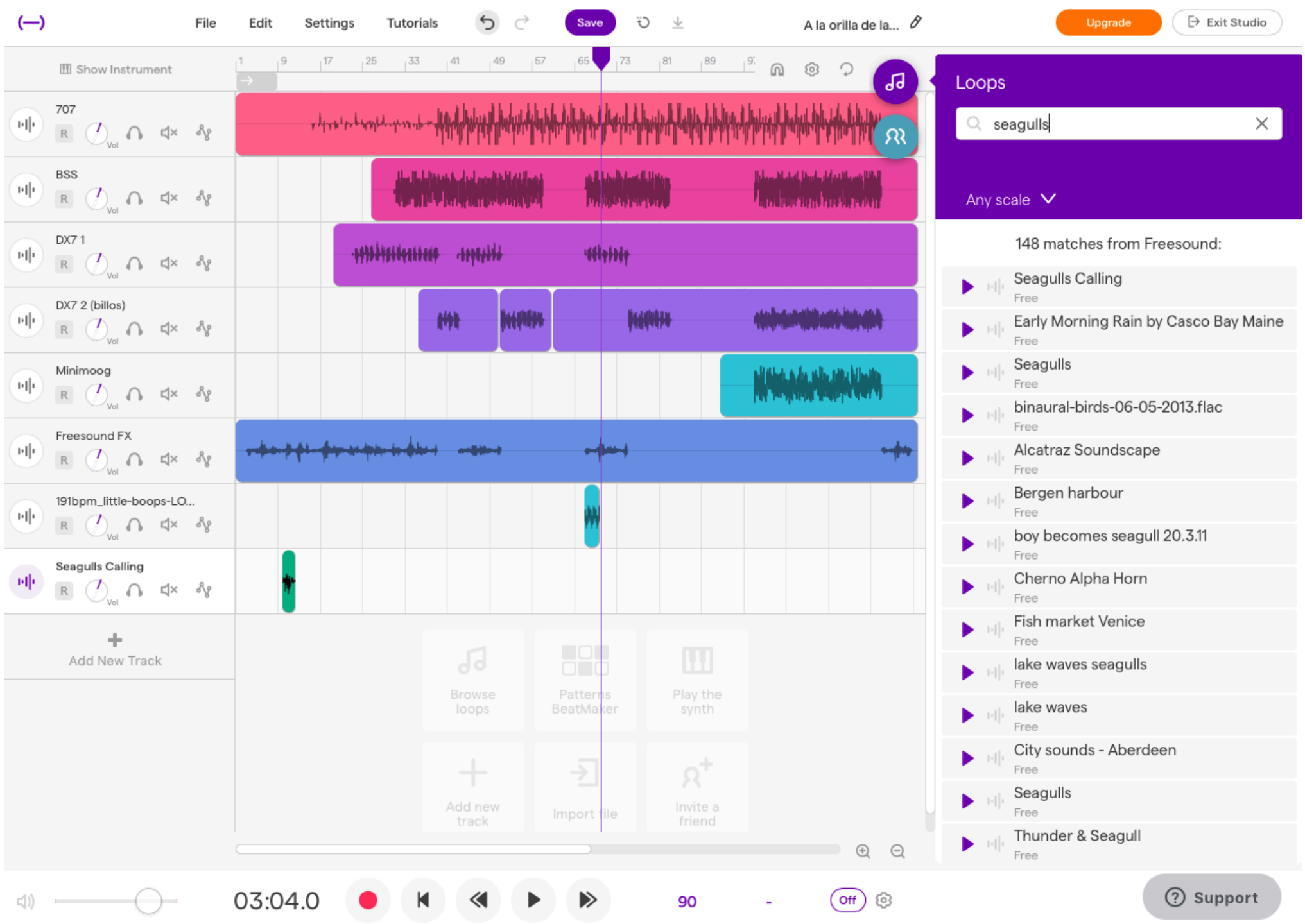


practicefirst

powered by MatchmySound™

Sight Reading Factory




File
Edit
Settings
Tutorials
Save
A la orilla de la...
Upgrade
Exit Studio
Show Instrument
707
BSS
DX7 1
DX7 2 (billos)
Minimoog
Freesound FX
191bpm_little-boops-LO...
Seagulls Calling
Add New Track
Browse loops
Patterns BeatMaker
Play the synth
Add new track
Import file
Invite a friend
Loops
seagulls
Any scale
148 matches from Freesound:
Seagulls Calling
Free
Early Morning Rain by Casco Bay Maine
Free
Seagulls
Free
binaural-birds-06-05-2013.flac
Free
Alcatraz Soundscape
Free
Bergen harbour
Free
boy becomes seagull 20.3.11
Free
Cherno Alpha Horn
Free
Fish market Venice
Free
lake waves seagulls
Free
lake waves
Free
City sounds - Aberdeen
Free
Seagulls
Free
Thunder & Seagull
Free
03:04.0
90
Off
Support

udio beta

a song about the fatigue of a night shift

Create

Discover

My Creations

Liked Songs

PLAYLISTS

By you | By others

Make your music

Learn how to create

Staff Picks

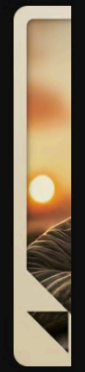
Metropolis Pt. 3
charlie
▶ 9282 ♥ 112

Cosmic Canine Cruise
Staff
▶ 19305 ♥ 277

Rising Sun Gospel
charlie
▶ 24477 ♥ 252

Crater Lullaby
Tie blue
▶ 19112 ♥ 101

Chill of Night
Staff
▶ 8206 ♥ 29



Wow.
Bobby
▶ 73

SUNO

The Summer of Suno Vol. 2 is live!
Submit a video sharing a story behind a song to win. Learn more.

- Home
- Create
- Library
- Explore
- Search

550 Credits
Subscribe

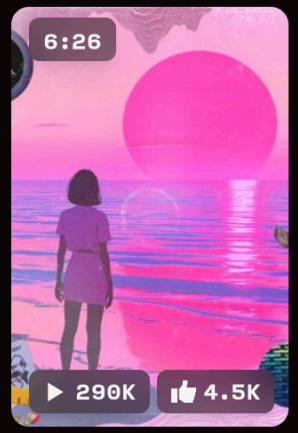
- What's New? 20
- Help
- About
- Careers

Summer of Suno, Vol. 1

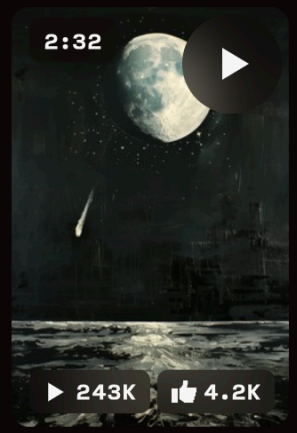
Go to Playlist →

MAYBE?!
Electronic, sweet female ...
AroundOnce

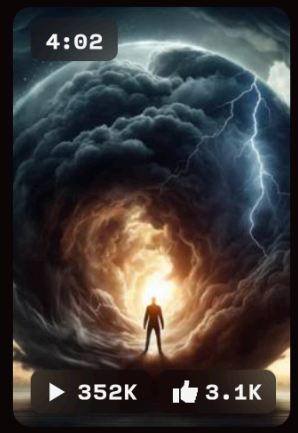
Suno Please Fix
electro-swing-step, step ...
SirBitesAlot



Where Do We Go Fro...
707 kit, slow, tape record...
sushileaf



Freefall
Slow otherworldly waves...
Falcon



Eye of the Storm...
Electric Violin, Modern Vi...
Feline Music...

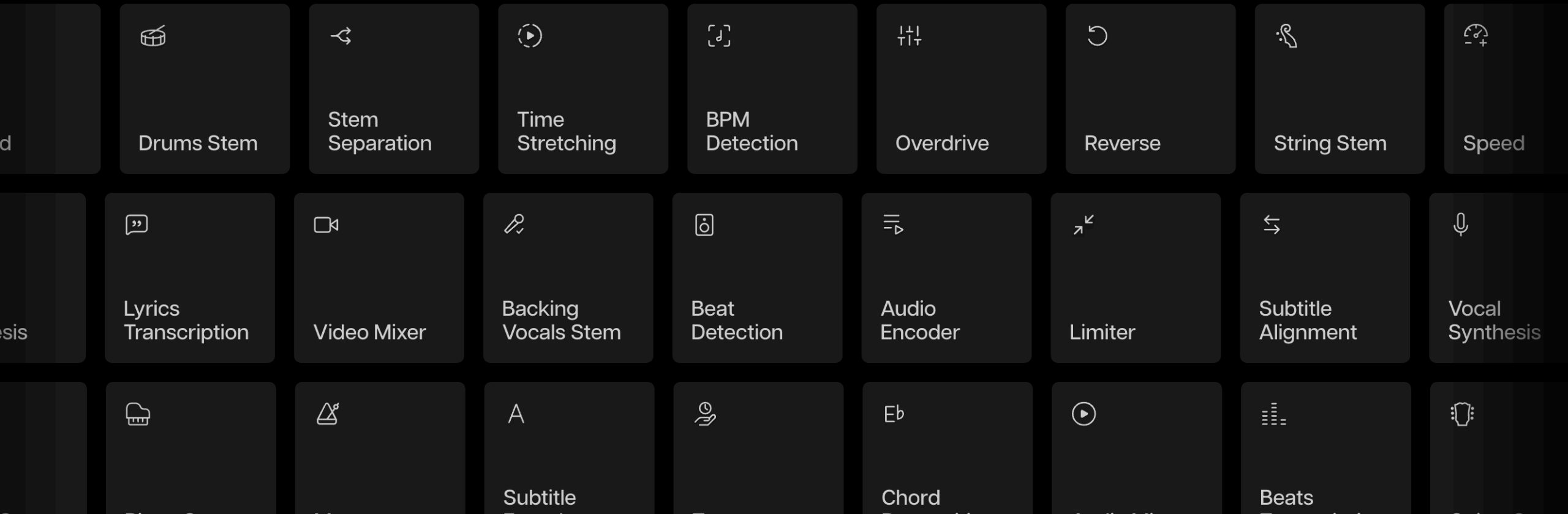
Suno Showcase

Show more +

The one-stop-shop for all your AI needs

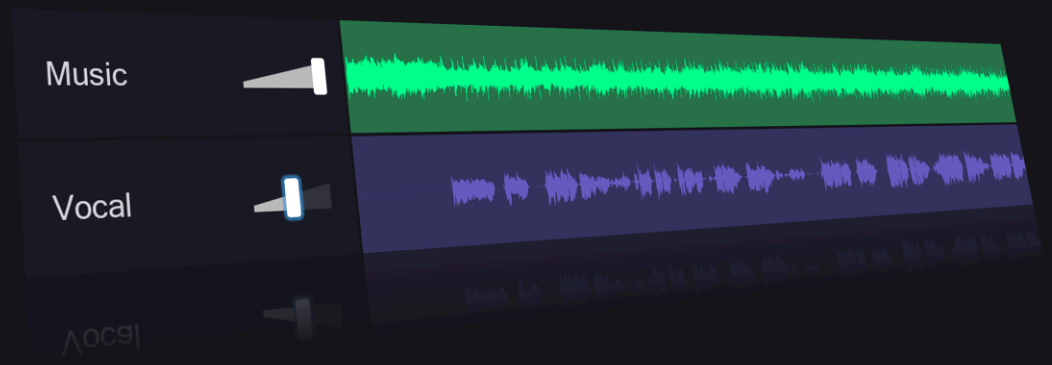
Largest collection of state-of-the-art AI modules.

Our platform offers a wide range of AI modules designed to streamline your development process and enhance your projects.



Vocal Remover and Isolation

Separate voice from music out of a song free with powerful AI algorithms



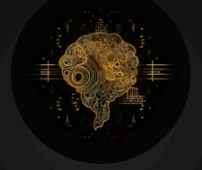
Browse my files

Remover
Splitter
Pitcher
Key BPM Finder
Cutter
Joiner
Recorder
Support

- DJ
- Production
- Marketing
- Album Art
- Usage

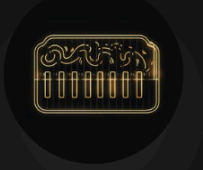
Limitless Lyrics

Get instant feedback on your lyrics and writing exercises



AIO - All In One

Experience the musical magic of All In One, orchestrate a masterpiece in seconds!



Chord Candy

Music genie to grant all your chord wishes!

- MARKETING — Ad Copy Chorus
- PRODUCTION — AIO - All In One — Pro
- PRODUCTION — Bass Brain
- MARKETING — Caption Composer
- PRODUCTION — Chord Candy
- PRODUCTION — Drums De Dior
- PRODUCTION — Harmonious Hitmaker
- PRODUCTION — Limitless Lyrics
- PRODUCTION — Lyric Lab

Empress.ac

AIVA

The Artificial Intelligence who composes classical music

The magic of AI to help educators with saving time.

CBS | replit | WIRED | tcea

For Schools

Learn more

For Teachers

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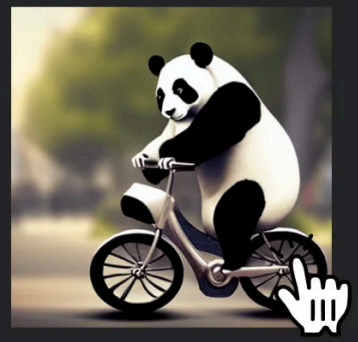
Edit Image Crop Flip

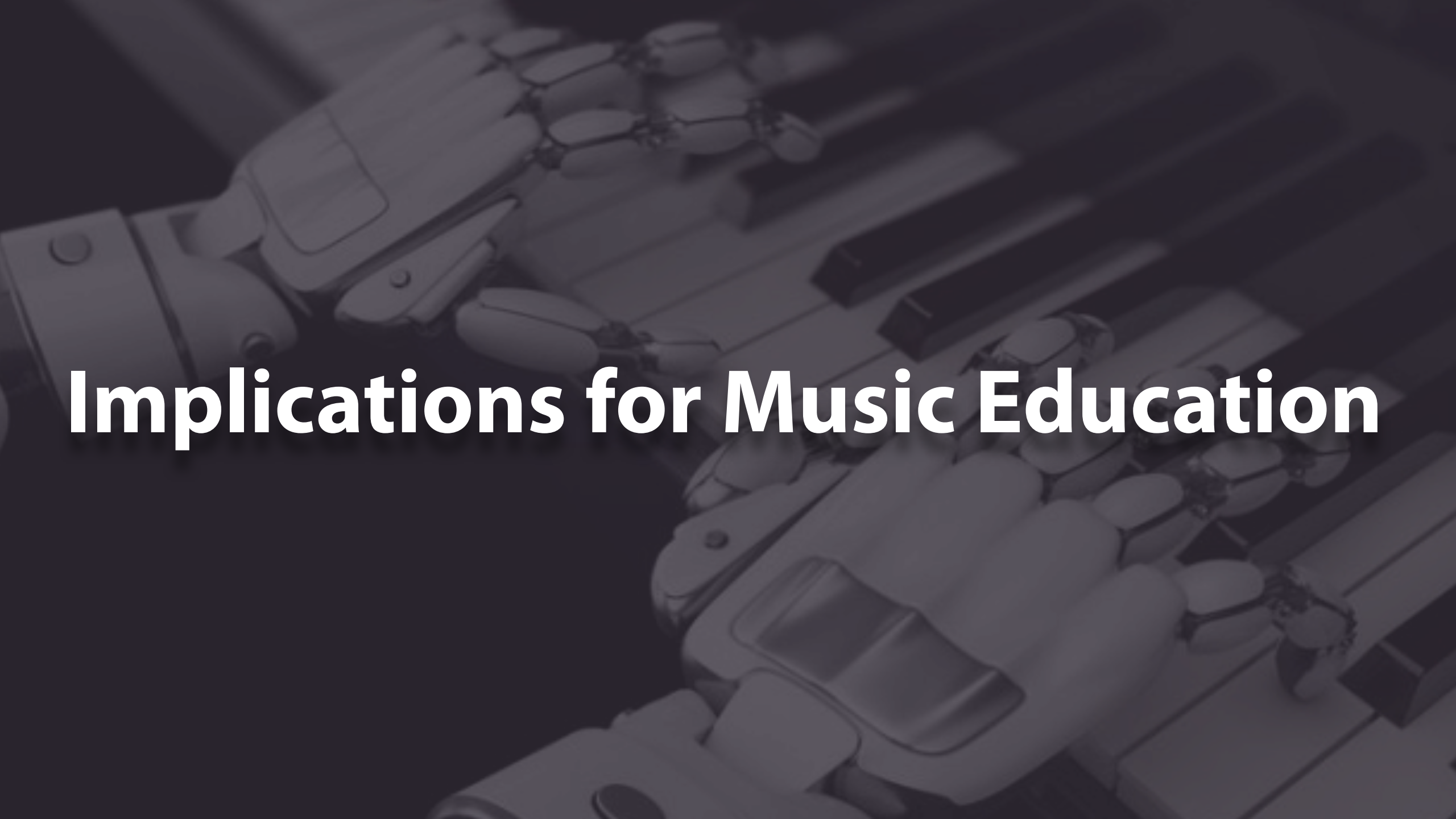
Text to image

Choose the image of “**A panda riding a bike through the city with depth of field**” you’d like to use.



Text to image

Canva



Implications for Music Education

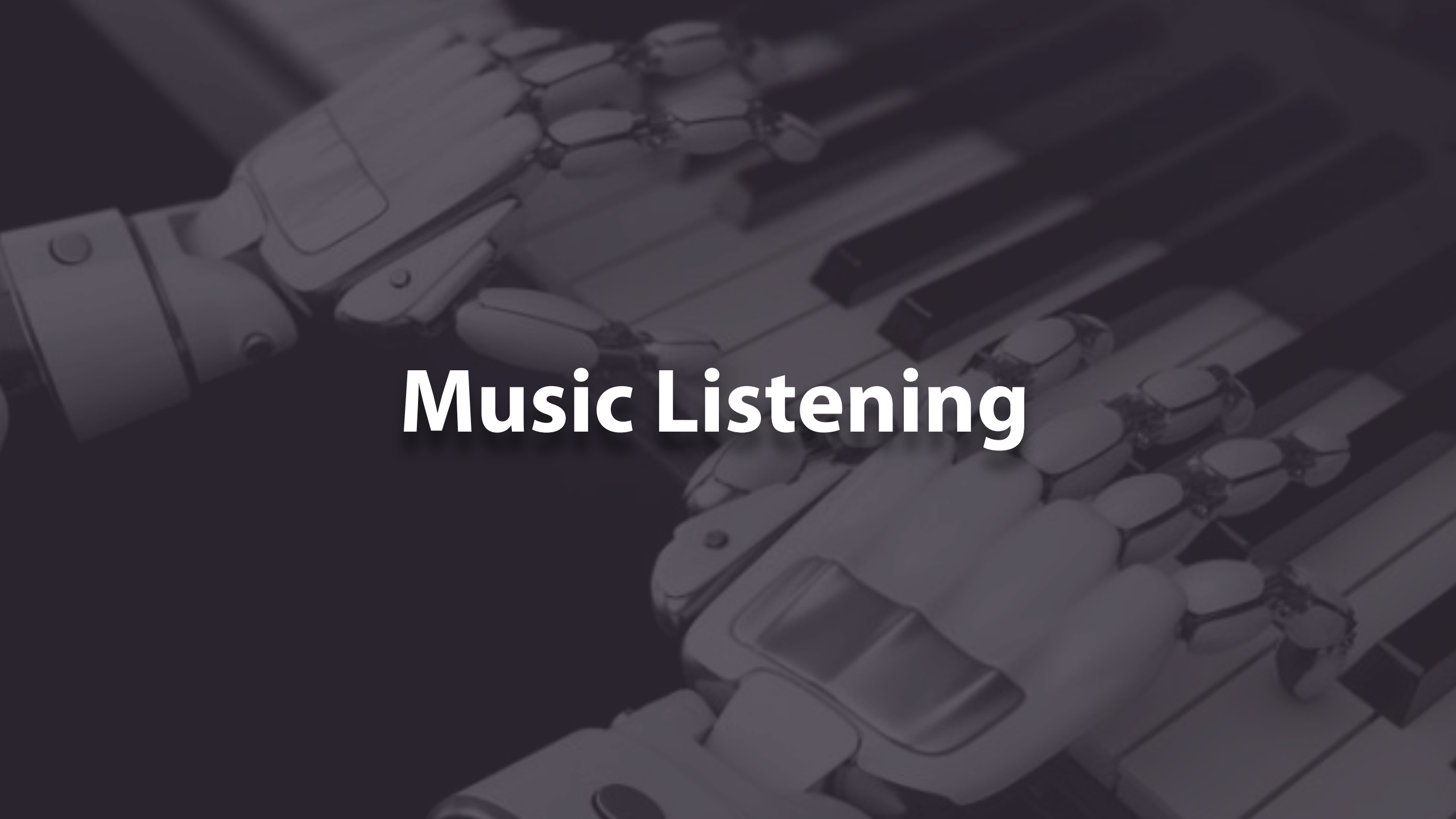
Personalized Music Learning

Authentic Assessment

Computer - Human Interaction

Detailed Data Analysis

Music Composition



Music Listening

Questions?

Thank you!

jim@musicfirst.com

www.musicfirst.com

www.jamesfrankel.com

soundcloud.com/musicfirstpodcast