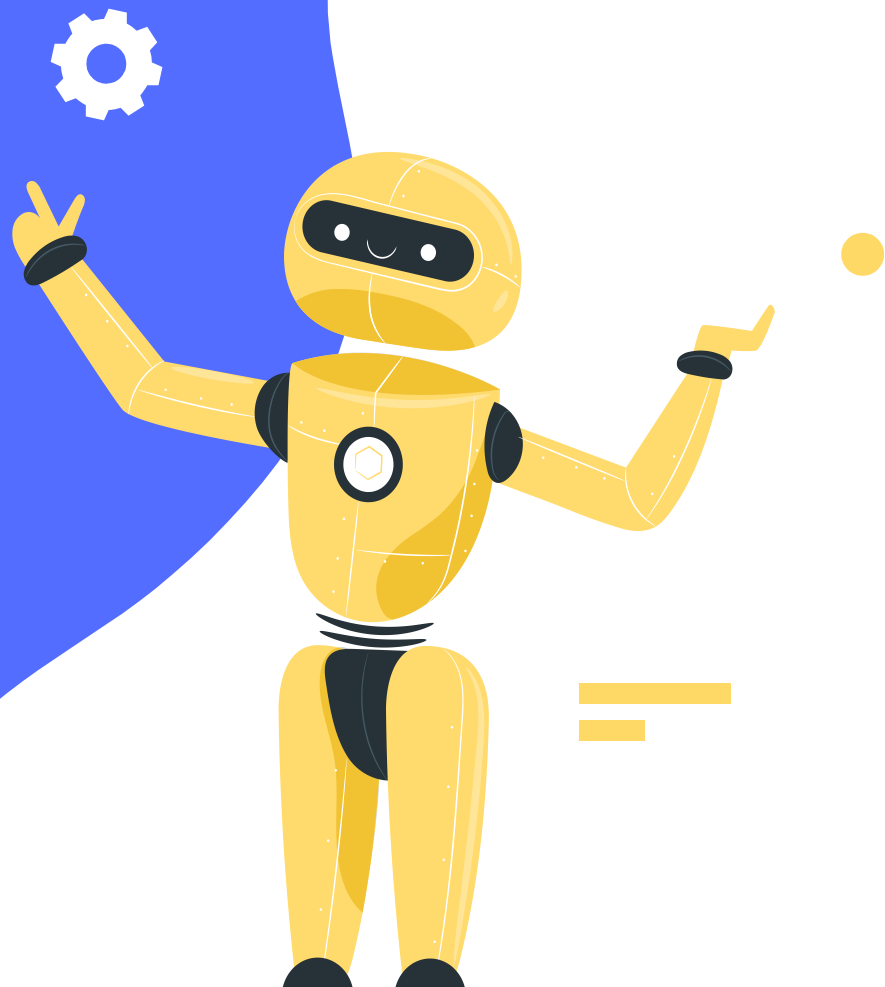


# SHIMON

## ROBOTIC

## MUSICIAN

Presentation By Aalya Sharaf





## 01 SHIMON'S CAPABILITIES

What exactly does it include?

## 02 EXAMPLES OF MUSIC ROBOTS

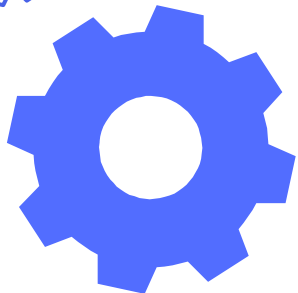
Are there other musical robots? If so, how advanced are they compared to Shimon?

## 03 MACHINE LEARNING

The field of sound and music in machine learning

## 04 CONCLUSION

Final reflection and comments





01

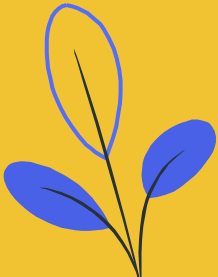
# SHIMON'S CAPABILITIES





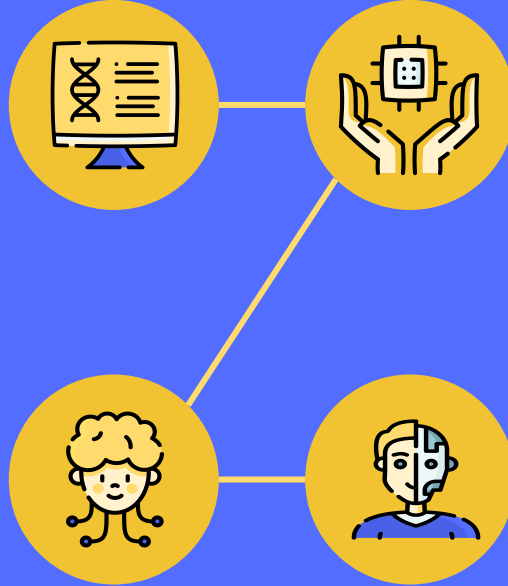
# WHO IS SHIMON?

Shimon is an autonomous marimba-playing robot developed by Georgia Tech's Robotic Musicianship Group.



## COLLABORATION

Shimon is designed to create interactions with human players.



## ACCOMPANIMENT

Shimon is able to improvise and create an accompaniment to an already live performer.

## COMPOSITION

Shimon is able to create new music, based off the data being fed into it.

## SINGING

Has an album dropping on Spotify, written and sung entirely by Shimon.





Spotify

Home  
Search  
Your Library  
Create Playlist  
Liked Songs

Favorite Songs

Install App

UPGRADE

aalyasharaf

Verified Artist

# Shimon the Robot

48 monthly listeners

 FOLLOW ...

## Popular

1		Into Your Mind	1,424	3:21
2		Gospel in Space		3:18
3		Biological Inclusion		4:24
4		Under My Thumb		2:15

 Into Your Mind  
Shimon the Robot

0:15 3:21

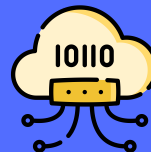
[https://open.spotify.com/artist/75cqlibSgnNSH7EKNKCLRw?si=hPypX7\\_ySpmeB6-F45ooAQ](https://open.spotify.com/artist/75cqlibSgnNSH7EKNKCLRw?si=hPypX7_ySpmeB6-F45ooAQ)

# MUSIC CREATION



## FUNDAMENTAL DIFFERENCES

Shimon's musical knowledge is drawn from training on huge datasets of lyrics



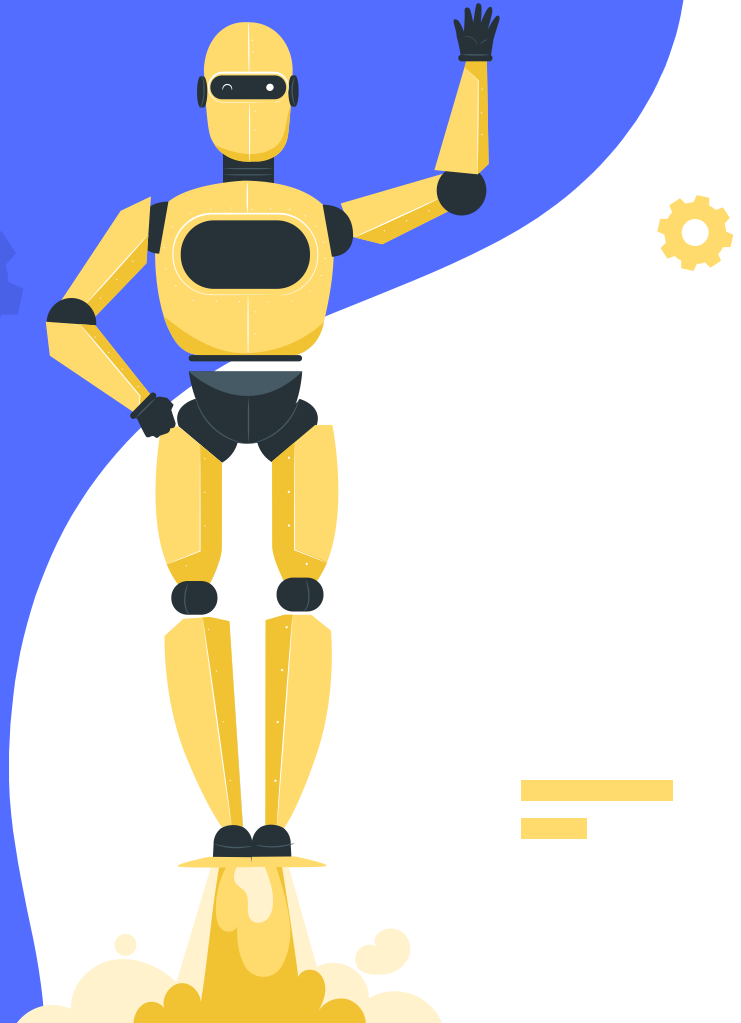
## HUMAN INTERACTION

Shimon can perform a range of musical tasks from composing a full song by itself or just playing a part composed by a human.



# FUTURE DEVELOPMENTS?

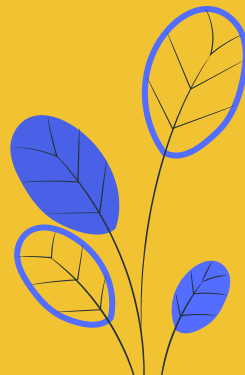
working on new capabilities that would allow Shimon to listen to, understand, and respond to lyrics in real time.

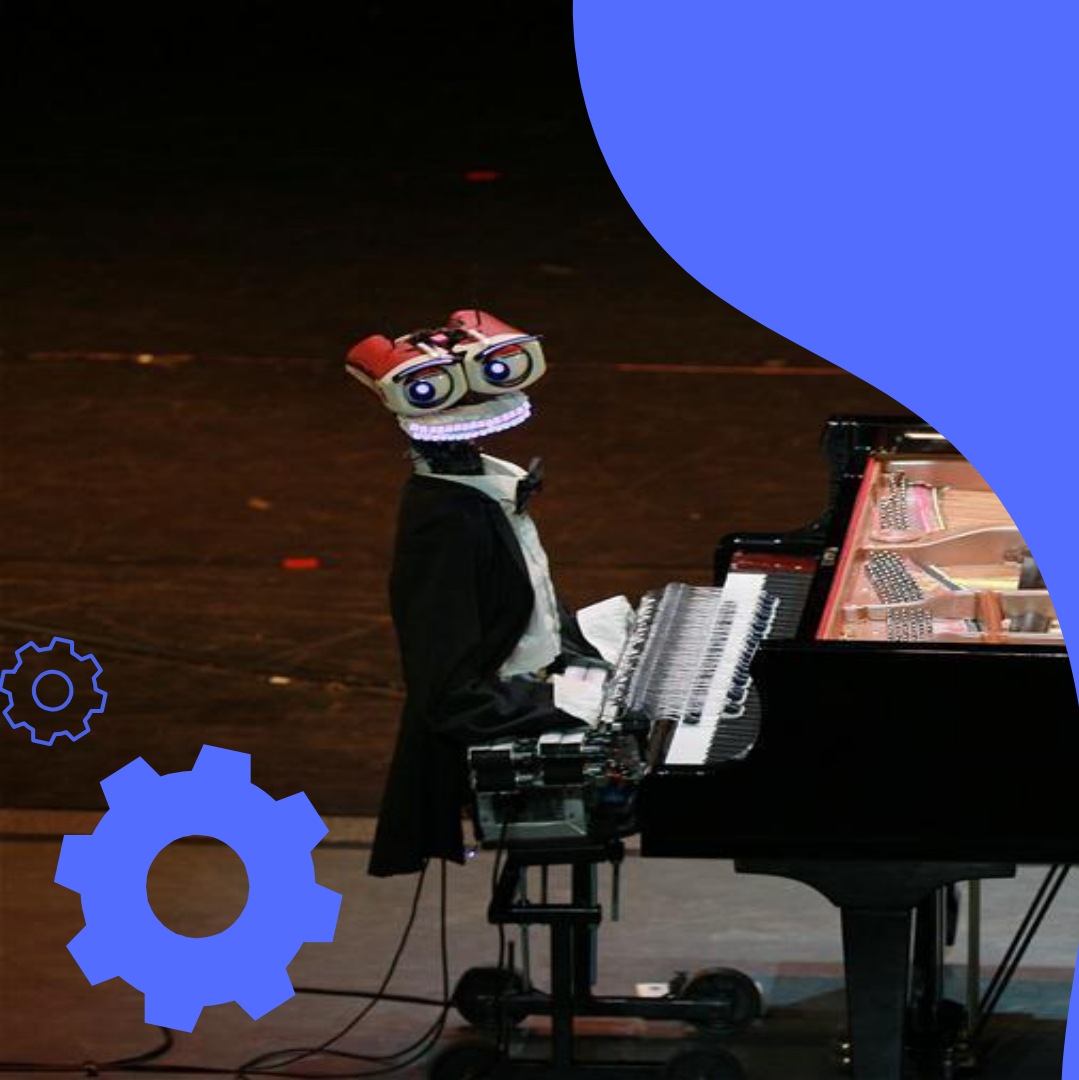




02

# EXAMPLES OF OTHER MUSICAL ROBOTS





# TEOTRONICO: THE ROBOT PIANIST

Created by Matteo Suzi, it is able to play the piano with remarkable dynamic control and articulation, a lot of it has to do with its 53 fingers.





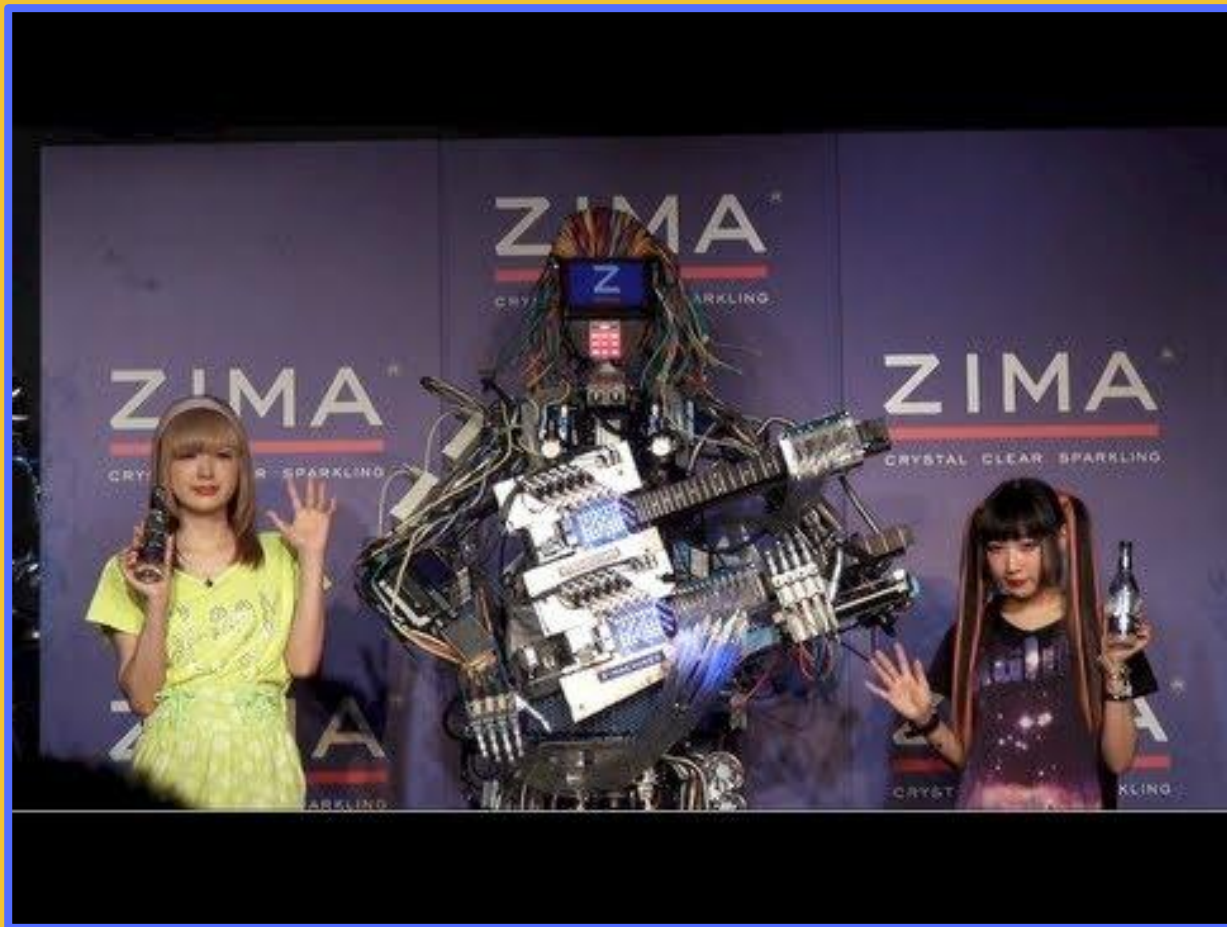
MACHINES

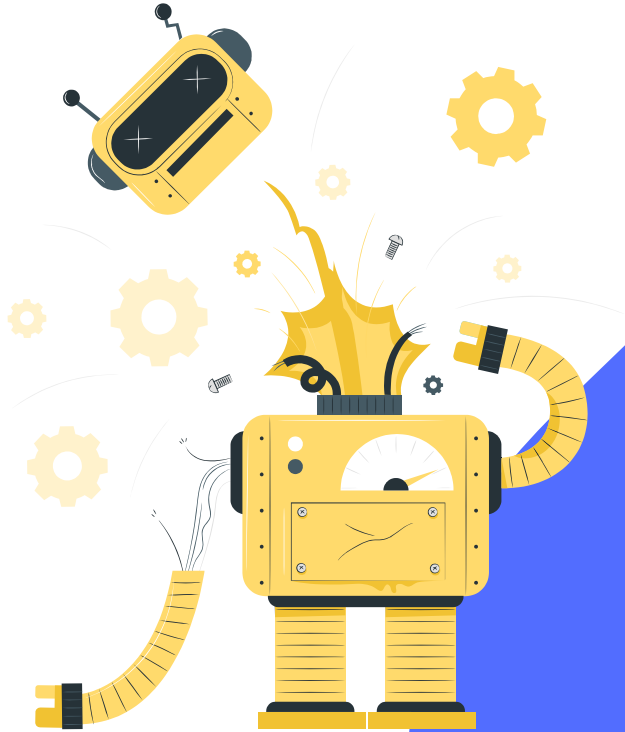


# Z-MACHINES

Consists of 3 robots: a guitarist, a drummer, and a keyboardist. They are described as the future of 'live music'.







HOW DOES  
THIS COMPARE  
TO SHIMON?

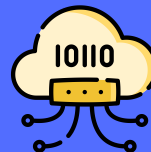


# SHIMON VS. OTHERS



## MORE ADVANCED

Overall, Shimon covers a broader range of skills and is not limited in that sense.



## MORE DEVELOPED

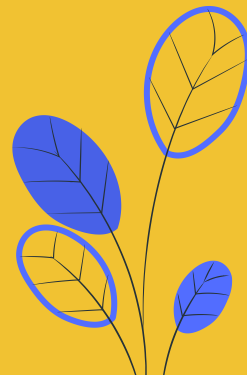
Has had a longer time for its developers to hone in on its skill set.



Three yellow gears of different sizes are positioned on the left side of the slide. One large gear is partially visible on the far left, and two smaller gears are stacked vertically next to it.

03

# THE ROLE OF MACHINE LEARNING





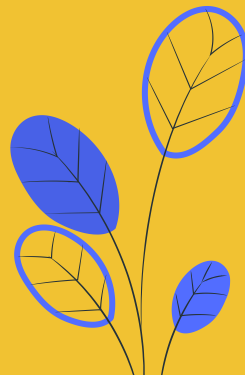
IN A WAY IS  
SHIMON LIMITED?  
DOES IT LACK  
ORIGINALITY?



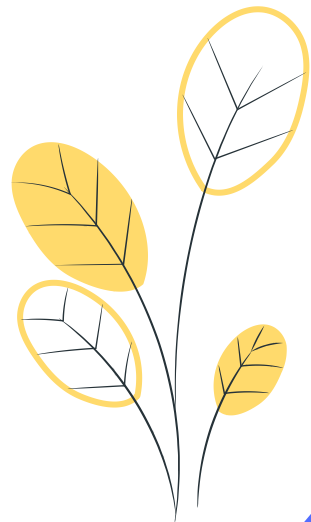
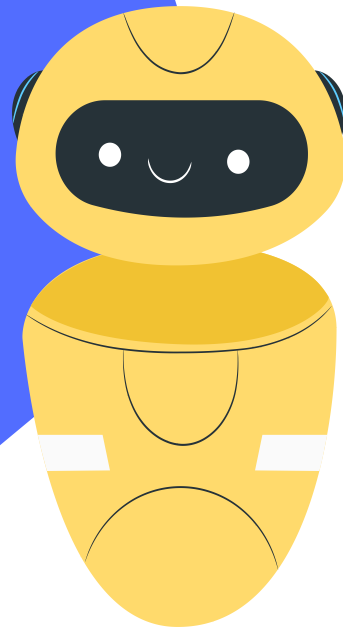
Three yellow gears of different sizes are positioned on the left side of the slide. One large gear is partially visible on the far left, and two smaller gears are positioned above and below it.

04

# CONCLUSION



# THANK YOU!



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