



**PIXEL SPEAK**  
IMAGE ANALYZER

# Pixel Speak

The Savior of The Visually Impaired

# Team Members

## ZION:

I live in Marietta, GA  
I am in 5th Grade  
I am Interested in Inventing,  
and Business making.  
I have a Fairly High experience  
level with Blockly and AI

## MANISH:

I reside near Seattle, Washington. I  
am going to 6th grade in the fall. I  
am interested in business, AI, coding,  
engineering, and basketball. I have a  
moderate level of experience with  
coding and robotics. I have done  
some HTML and Python.

## ALEXANDER:

I am a resident of Great Falls, VA. I  
will be going to 7th grade at Cooper  
MS next year. I am interested in  
engineering, business, AI, and cars. I  
have experience in coding, and have  
done HTML, robotics, and Python.

## REBECCA:

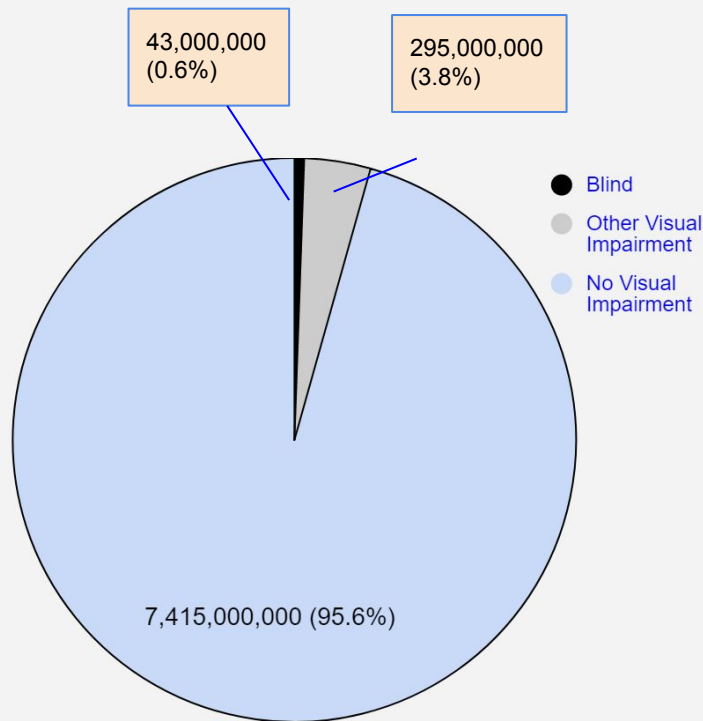
Medina, WA  
6th Grade  
Interested in visual arts,  
coding.  
Have done python and a bit  
of HTML.

# Why Is Our Device Needed?

- 43 million people blind worldwide
- 295 million people with moderate - severe visual impairment

People who have a hard time or are unable to see can use **Pixel Speak** to “see” artwork and learn about it.

**Pixel Speak** will help people suffering from blindness, deafness and blindness combined, or any type of visual impairment with their daily lives and looking at art galleries. We just want to make life easier for all of them!



# About The Pixel Speak

Trigger  
for  
braille  
mode



Our device, or the **Pixel Speak** will help the visually impaired with their daily lives. It takes pictures of things for people who have vision problems and tells them about it.

The **Pixel  
Speak!**

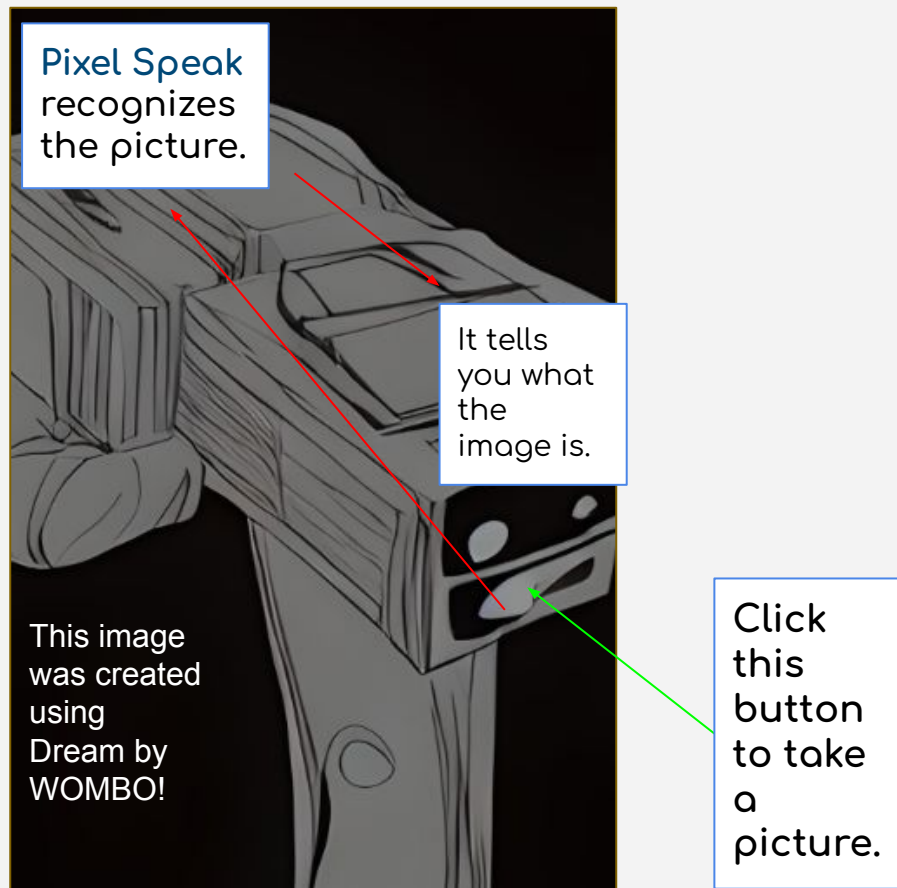
Braille  
Mechanism to  
write in braille  
in case  
someone is  
both deaf and  
blind

One trigger on the device toggles the modes. One mode is for blind people who can hear. The other mode is for blind people who are also deaf.

# Pixel Speak Design

**Pixel Speak** uses AI to analyze specific images, colors, and more!

1. The **Pixel Speak** analyzes the specific object by taking a picture when you click the trigger.
2. It then runs the picture through a convolution neural network to determine what it is! It can also read subtitles and signatures.
3. It then says what the object is through a speaker.



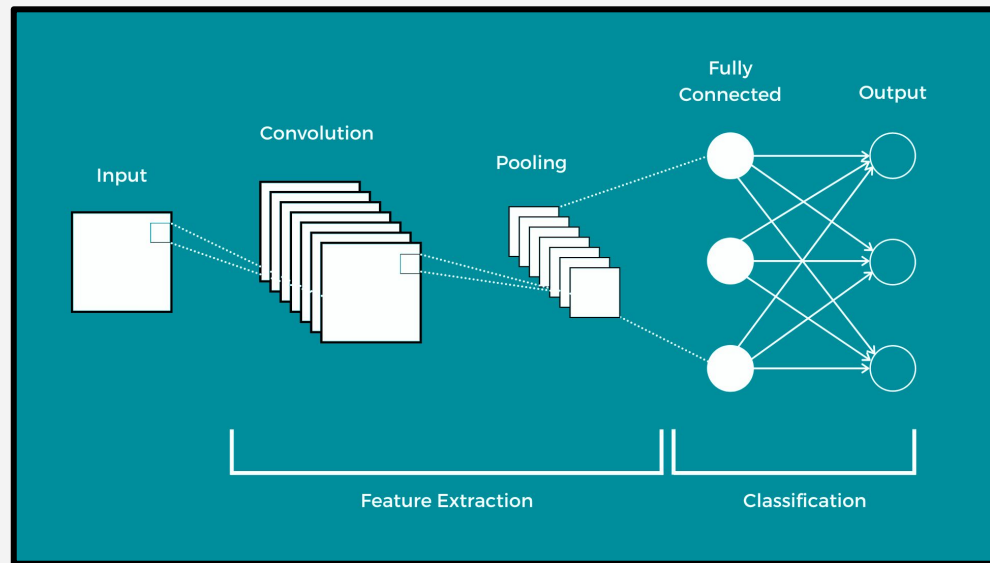
# The Impact



Visually  
impaired  
person

If a visually impaired person goes to an art museum, how will they enjoy the beauty of it? With our device, a visually impaired person can use a button. Once they press it, the image will be described to them. Our device can also do the same thing for things other than artwork.

# Our AI Model



What is a Convolutional Neural Network, and how does it apply to the **Pixel Speak**?

A Convolutional Neural Network is a network with three channels. The earlier layers of the Network recognize major details of an image while the later layers reduce dimensionality.

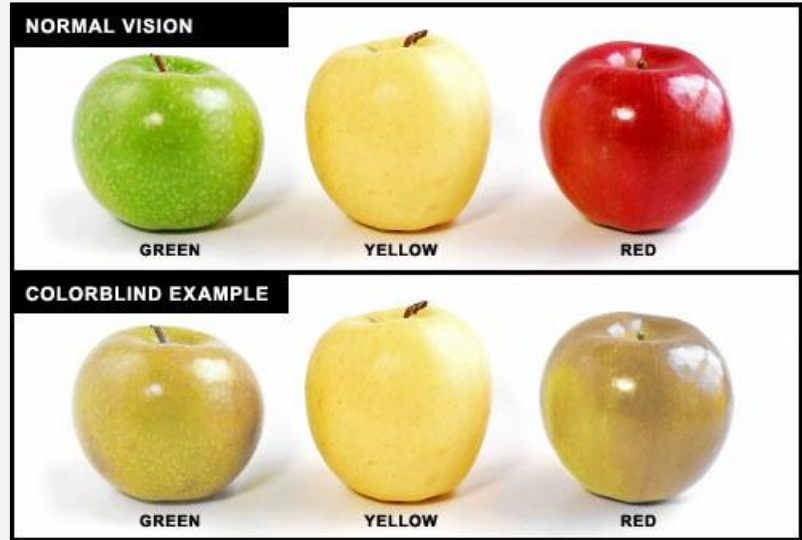
The **Pixel Speak** uses a Convolutional Neural Network to determine what the object in the picture is.

# Competition

There are many other companies that have devices that help visually impaired people to know what things are.

However, **Pixel Speak** also has the ability to help people who are

- color-blind
- deaf and blind





# Profits



The price of **Pixel Speak** is \$1,750.

- Our device will be a one time purchase.
- If a customer wants insurance, they will have to pay ten dollars a month.
- The insurance only covers fees if the system fails.
- If the customer breaks it, they have to pay to buy a new device, *unless* they previously agreed to pay 25 dollars instead of 10.

# Expenses

## Profit and Expenses:

- 4,500,000 devices needed for production
- Needed over span of 2 years
- 5,625 employees needed
- \$215,000 per year for 2 years provided for each employee
- Will spend \$2,418,750,000 paying employees for first two years combined
- Other expenses will cost around \$25,000,000 per year



# Purpose For Funding

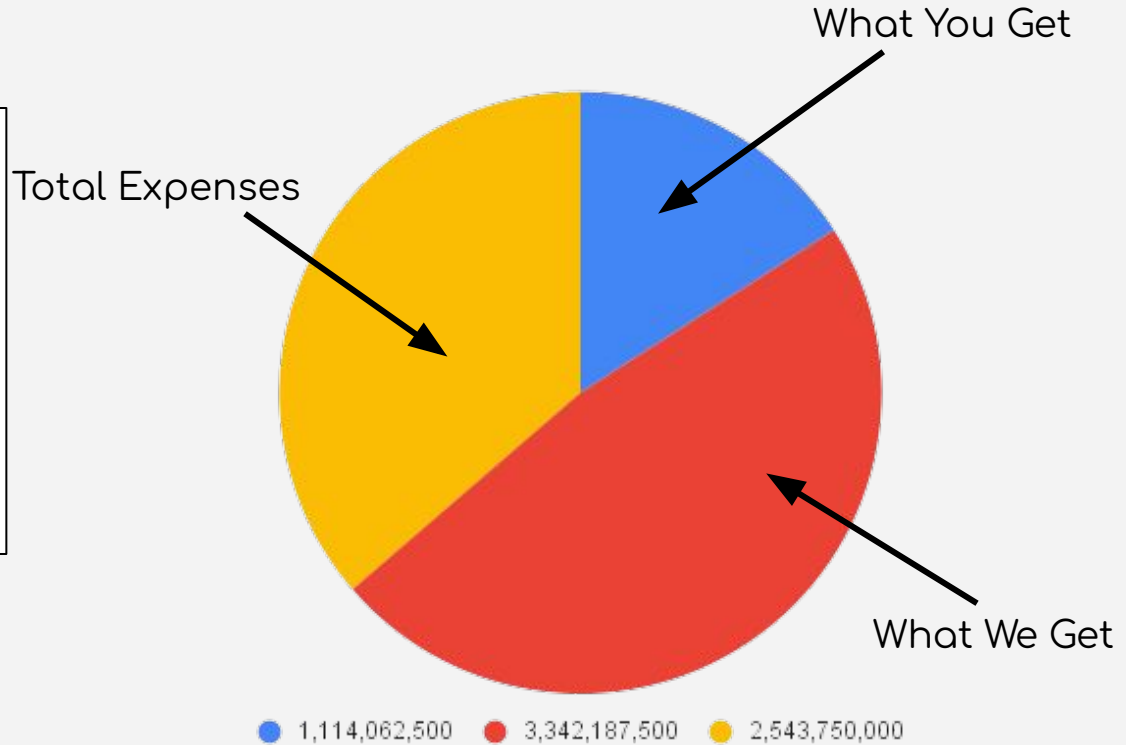


You should fund the 100,000 dollars of **MEHTA+** money to us because we expect to have about 4 million people paying \$1750 for our product.

This would give us around 7 billion dollars. Also, most people will pay at least 10 dollars each month for insurance. That would give us 40 million dollars each month. If they choose to pay 25 dollars for extra insurance, that would mean 100 million dollars each month.

# What Will You Get Back If You Choose Us?

**Pixel Speak** is the most profitable company for you to invest in. If you choose to fund the **Pixel Speak**, we will give you a stake of 25% in our company! With our calculated profits, you will get approximately 1.11 billion dollars.



ESTIMATED REVENUE



Thank you for listening to our presentation. We hope you choose to fund our startup, so you can get the best deal and profit!



Thank  
you!