

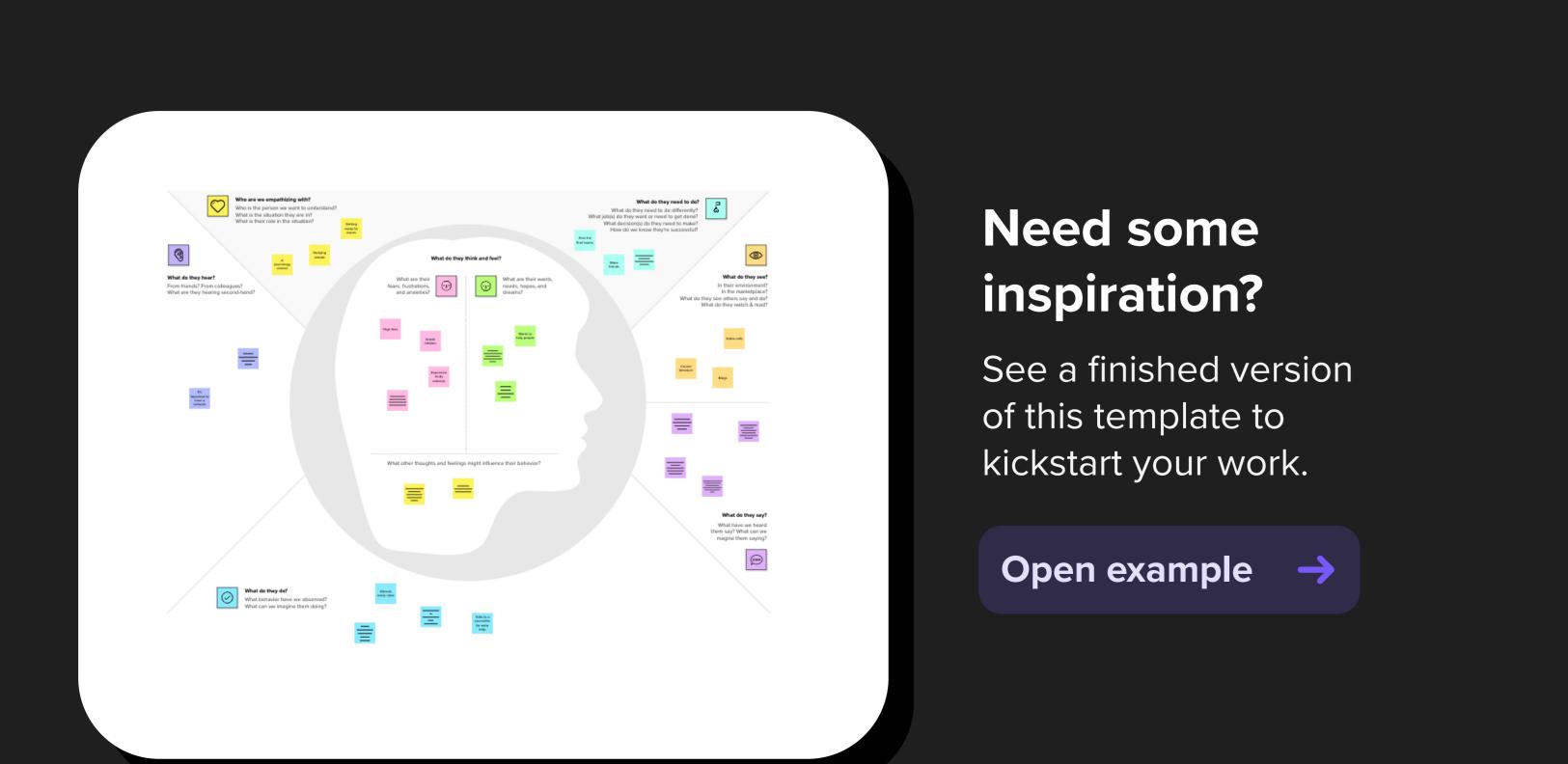
## Deep Learning Model For Eye Disease Prediction

An Al Doctor

Originally created by Dave Gray at

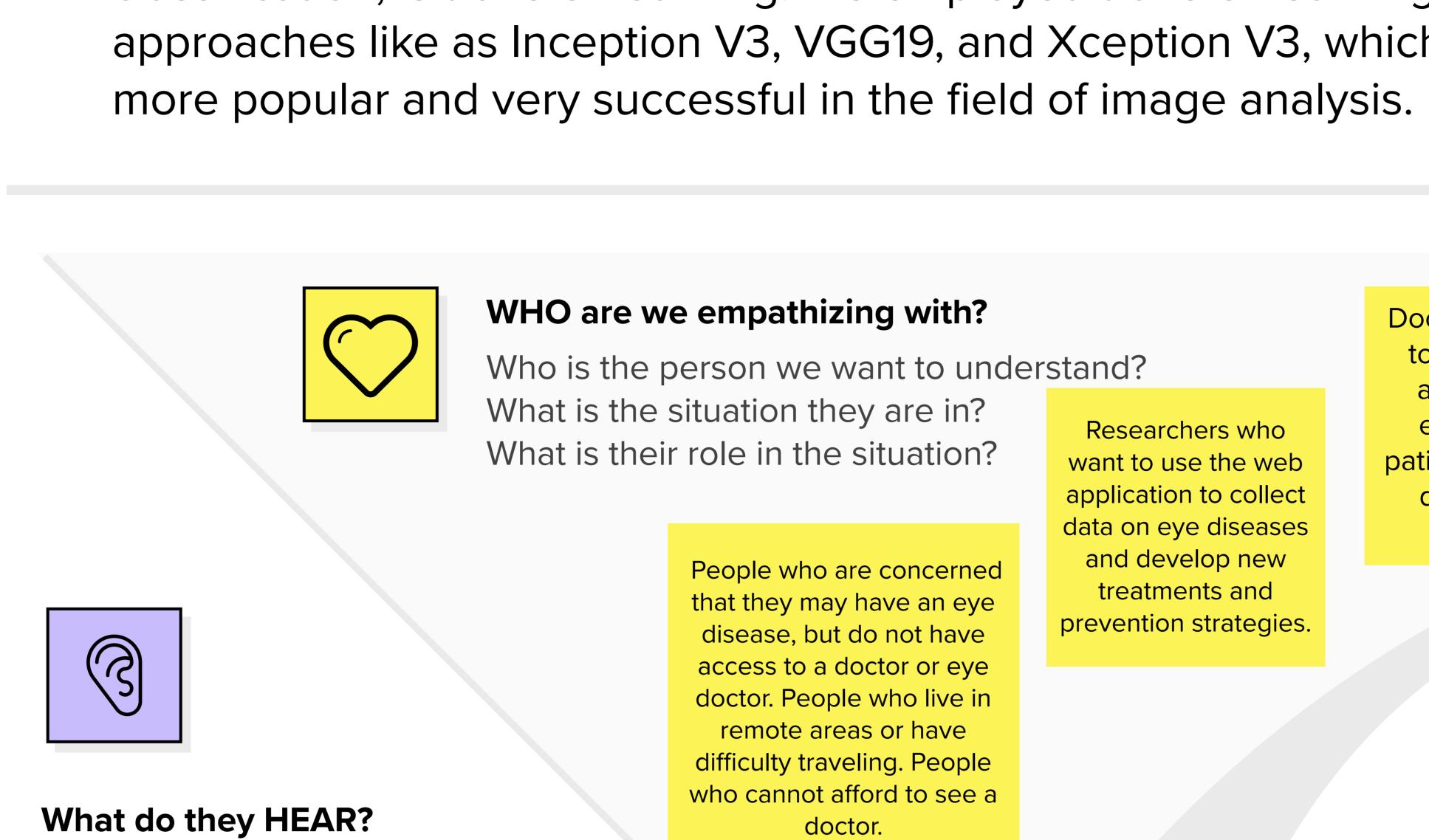


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## Deep Learning Model For Eye Disease Prediction

In this project, we are categorizing different kinds of ocular diseases that individuals can develop for a variety of reasons, such as age, diabetes, etc. The four main groups into which these disorders fall are Normal, Diabetic Retinopathy, Cataract, and Glaucoma. In artificial intelligence (AI), deep learning (DL) techniques are key components of high-performance classifiers used in the image-based diagnosis of eye diseases. One of the most widely used methods that has improved performance in many domains, particularly image analysis and classification, is transfer learning. We employed transfer learning approaches like as Inception V3, VGG19, and Xception V3, which are



Doctors who want to use the web application to educate their patients about eye diseases and

prevention.

What are their fears,

>Lack of

understanding

about eye diseases

and prevention

>Difficulty accessing

healthcare

frustrations, and anxieties?

>Uncertainty about

the accuracy of

the prediction

>Difficulty using

the web

application

We can also provide

links to independent

studies that have

evaluated the

accuracy of the

model.

**GOAL** 

What do they THINK and FEEL?

The web application should provide clear instructions on how to upload an image of an eye. The image should be of high quality and well-lit.

**GAINS** 

A user who is at risk

for vision loss may be

able to prevent vision

loss by following the

recommendations on

the web application.

We can also

allow users to

save their results

so that they can

come back to

them later.

What are their wants,

needs, hopes, and dreams?

Reduced anxiety,

improved

understanding of eye

diseases and

prevention, increased

access to healthcare,

and improved quality

of life.

What do they need to do differently? What job(s) do they want or need to get done? What decision(s) do they need to make? How will we know they were successful?

The results should include the predicted eye disease, the confidence score of the prediction, and any recommendation for further action.

for users who need help using it. This could

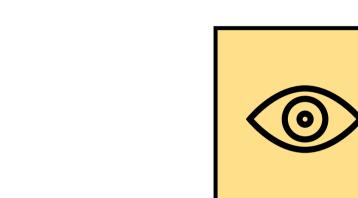
be done through a FAQ A page with the results page, a live chat feature, or a customer prediction, including support email address. the predicted eye disease, the confidence score of the prediction, and any recommendations for

A page where users can upload an image of their eye and select a few options about their eye health, such as their age, gender, and medical history.

What do they need to DO?

The web application

should provide support



further action.

Links to additional

information about

the predicted eye

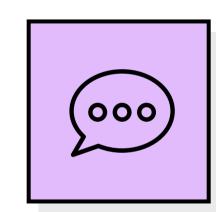
disease, such as

symptoms, causes,

and treatments.

What do they SEE?

What do they see in the marketplace? What do they see in their immediate environment? What do they see others saying and doing? What are they watching and reading?



What do they SAY?

What have we heard them say? What can we magine them saying?

I'm going to upload an image of my eye to see if the web application can predict if I have glaucoma.

Users can provide feedback on the web application by clicking on the "Feedback" button and submitting a form. This feedback will be used to improve the web application and make it more userfriendly.

The web application predicted that I have a 50% chance of having cataracts. I'm going to show the results to my doctor.

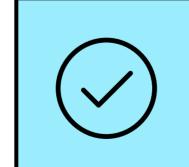
What are they hearing others say? What are they hearing from friends? What are they hearing from colleagues? What are they hearing second-hand?

> It is important to note that the eye disease prediction web application is not a substitute for professional medical advice. If users have any concerns about their eye health, they should consult with a doctor or other eye care professional.

Receive feedback from the user that he has tried and got the good accuracy that it is suitable to use

> Users are reporting that the application is easy to use, accurate, and helpful. However, there are also some concerns about the reliability of the application, as it is still under development.

> > users can click on the "Upload Image" button and select an image of their eye from their computer. The image should be in a common image format, such as JPG or PNG.



What do they DO?

What do they do today? What behavior have we observed? What can we imagine them doing?

through other devices, such as smart TVs or game consoles.

**prediction:** web application will process it and display the results of the prediction. The results will include the predicted eye disease, the confidence score of the prediction

View the results of the

Share the results with their doctor: This could be done by generating a PDF report, sending an email, or connecting to a third-party medical record system.

What other thoughts and feelings might influence their behavior?

we can develop a

mobile version of the

web application or

make the web

application accessible

users can click on the "Learn More" button and visit the educational resources section of the website. This section will include articles, videos, and interactive quizzes about eye diseases and

prevention.