



BUILT A PNEUMONIA DETECTION MODEL USING TEACHABLE MACHINE

Built it in minutes. Tested it on real medical data.




PROJECT OVERVIEW


- **Problem:** Early pneumonia detection is crucial but often delayed.
- **Solution:** A deep learning model trained to classify X-rays into “Pneumonia” or “Normal”.
- **Tool Used:** Teachable Machine by Google
- **Dataset:** Chest X-Ray Images (Pneumonia) - Kaggle


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MODEL ARCHITECTURE


Normal 

1341 Image Samples


Webcam 


Upload 











Pneumonia 

1990 Image Samples

Webcam 


Upload 







 Add a class



Training


Train Model


Advanced 

Epochs: 30  

Batch Size: 16  

Learning Rate: 0.001  

Reset Defaults 

Under the hood 

← SWIPE 

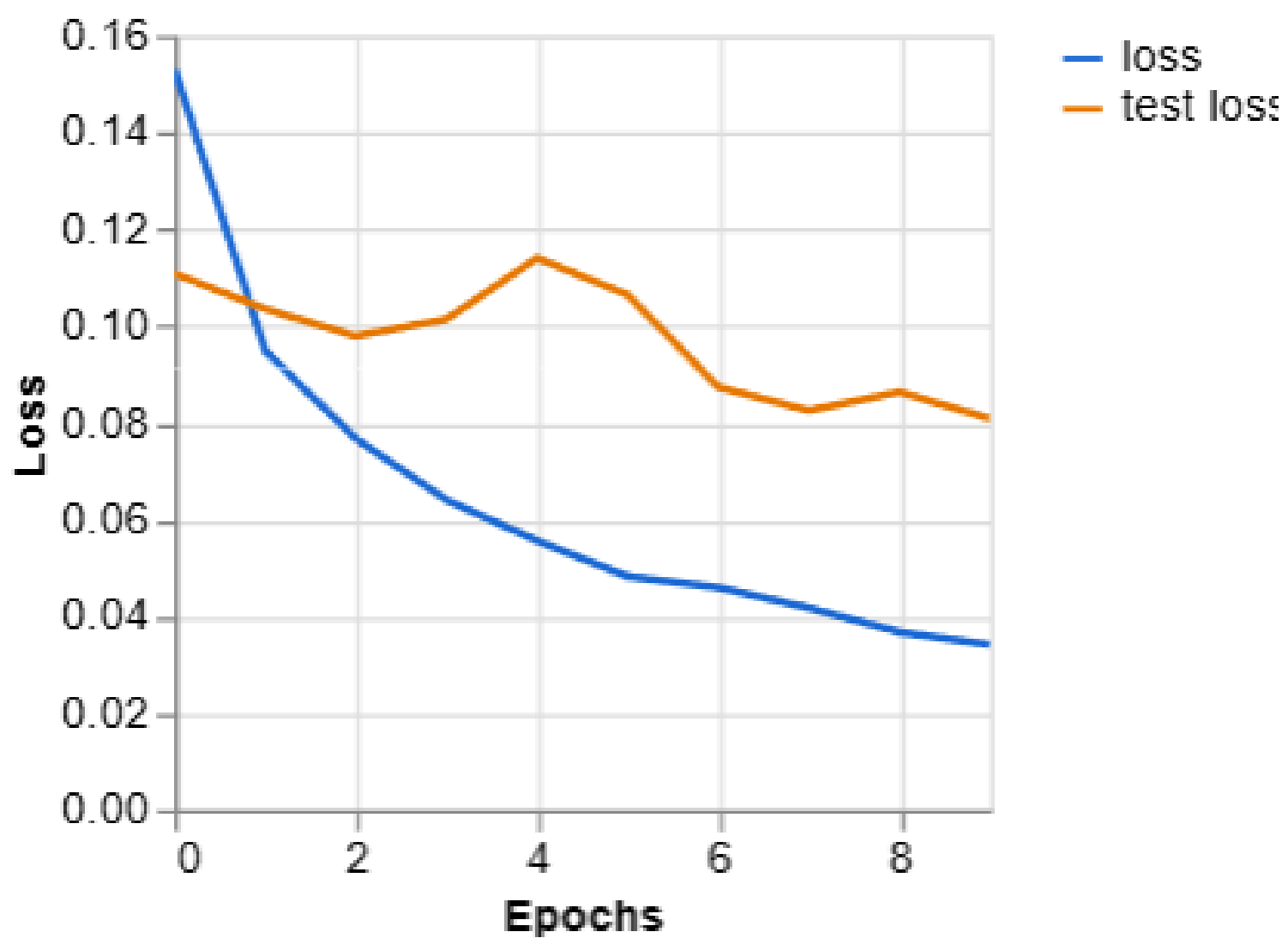
MODEL ARCHITECTURE

- **Backbone:** MobileNet
- **Image Size:** 224×224
- **Augmentations:** Rotation, flip, noise
- **Train/Test Split:** 80/20



LOSS CURVES

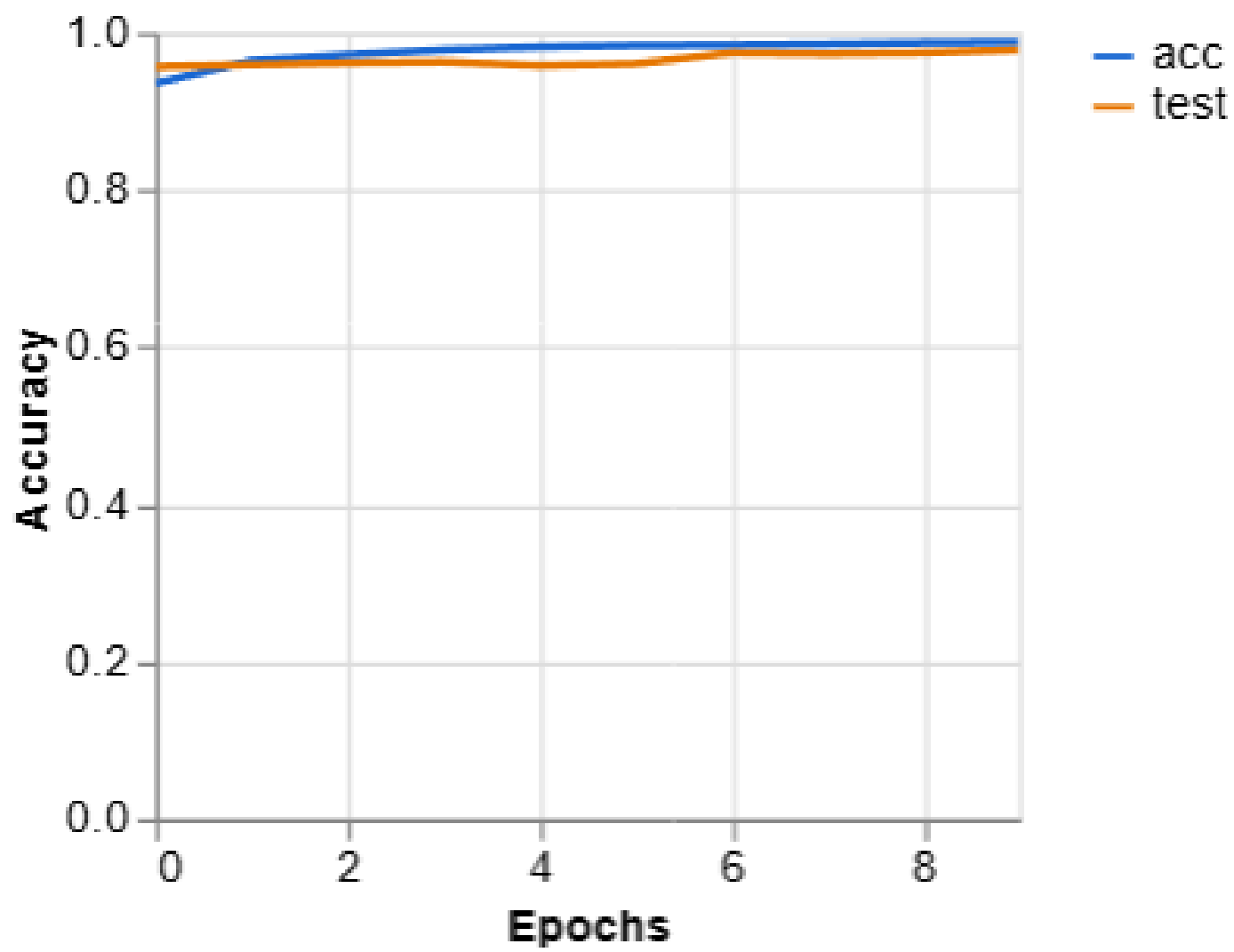
Loss per epoch



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ACCURACY CURVES

Accuracy per epoch



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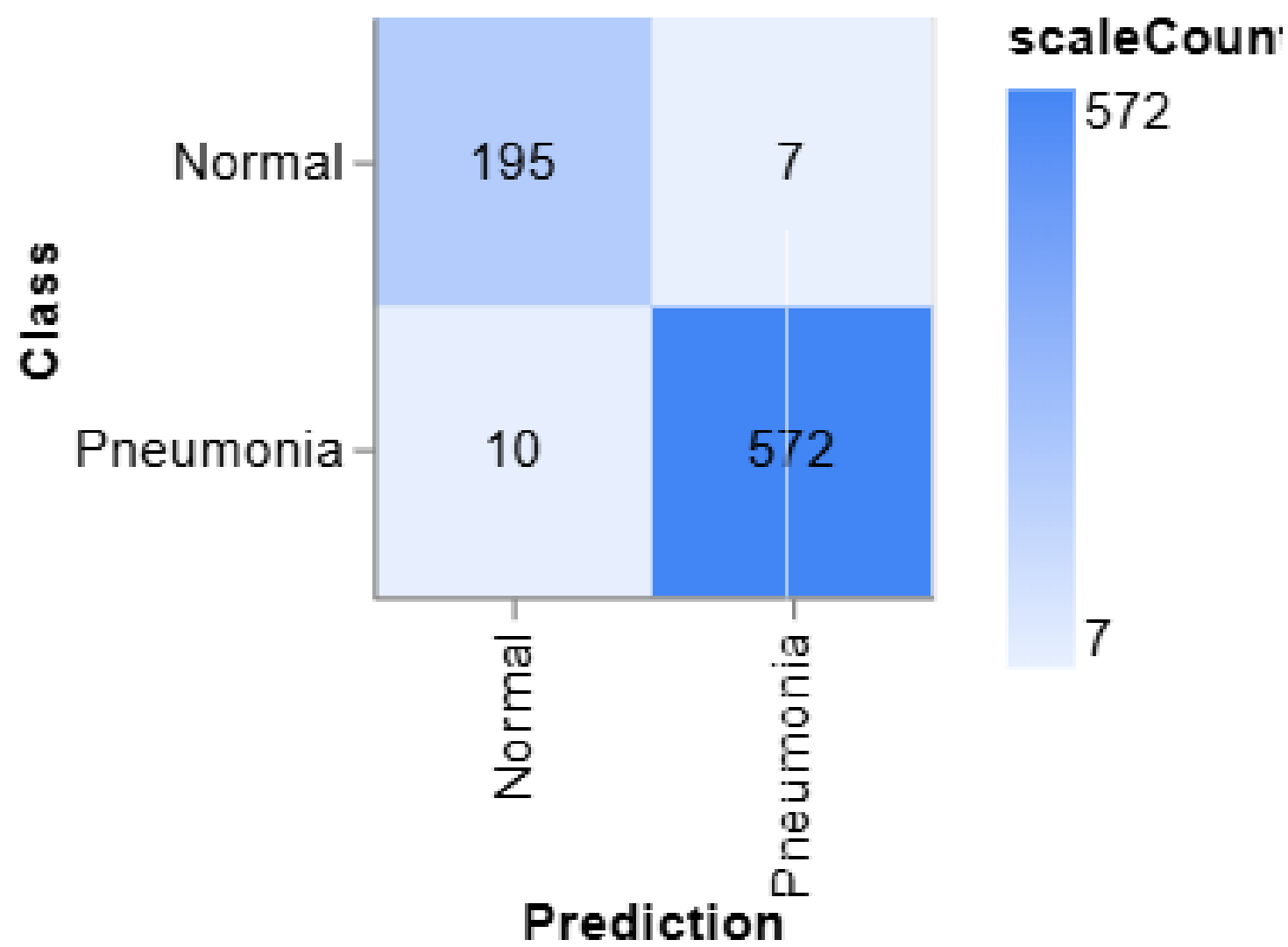
ACCURACY

Accuracy per class

CLASS	ACCURACY	# SAMPLES
Normal	0.97	202
Pneumonia	0.98	582

CONFUSION MATRIX

Confusion Matrix



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PREDICTION

Normal

1341 Image Samples

Webcam

Upload

Pneumonia

1990 Image Samples

Webcam

Upload

Add a class

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Reset Defaults

Under the hood

Choose images from your files, or drag & drop here

Import images from Google Drive

Output

Class 1

Class 2 99%

SWIPE



THANKS FOR SWIPING!

Let's connect together

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 **Ayyash Fous**

