Cure AI

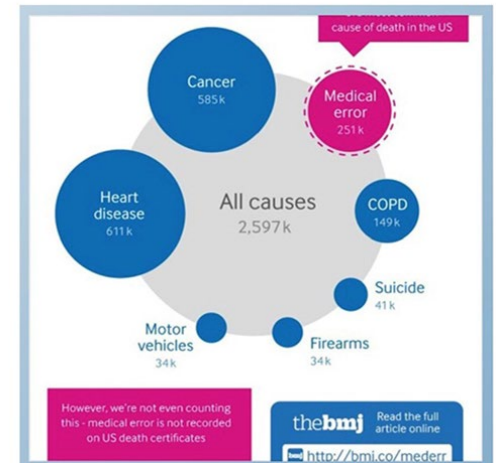By: Ethan Hegde, Uddip Kashyap, Zaryan Tekkam, and Varun Gadi

0 1 Introduction

Problem Setup

- In the world, medical error is the third largest leading cause of death, with millions of people not having safe access to medical technologies.
- Cure AI's mission is to provide hospitals, clinics, and healthcare offices with tools to improve patient outcomes and operational efficiency.
- Our company's model's aim is to help patients that get an inconclusive or potentially inaccurate diagnosis using our advanced models.

Medical Error is the third leading cause of death in the country

cause of death in the US

Cancer
585k

Medical error
251k

Heart disease
611k

All causes
2,597k

COPD
149k

Suicide
41k

Motor vehicles
34k

Firearms
34k

However, we're not even counting this - medical error is not recorded on US death certificates

thebmj Read the full article online
http://bmj.co/mederr

0 2　Our Approach

Methodology

Model

Data Collection
Data is collected from patients and open source datasets.

Augmentation
Machine Learning Techniques are applied to artificially inflate image counts.

Model Training
We train the model for the initial time.

Optimization
We fine-tune the model to achieve the best results possible.
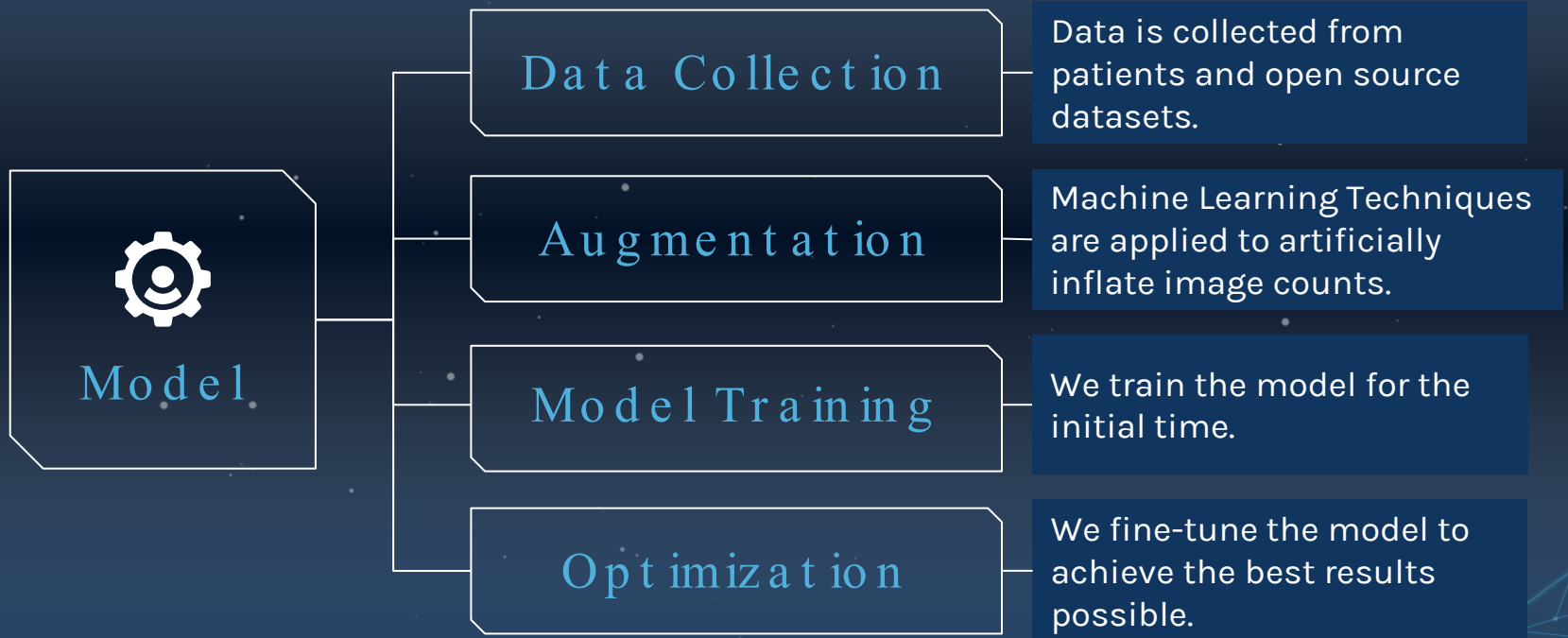
03

Our Data

Data Acquisition and Use

- We collected our own initial images of Rock, Paper, and Scissors

- The data is anonymized and augmented to further increase our data collection, to give us more accurate results for our model.

- With your investment, we can source these images from more diverse areas to ultimately broaden our scope of data in the healthcare field

04 Revenue

We plan to charge 20 dollars per hospital scan. Since the average scanner does 80 scans per day and the average hospital has 5 scanners, we would have an annual revenue of 2.92 million dollars per hospital assuming 365 days a year.

05

Results of
our Model

Results

66 %

Physician Accuracy

76 %

Model Accuracy

10 0

Our Image Amount

```
Epoch 29/30
38/38 [==============================] – 2s 49ms/step – loss: 1.0752 – accuracy: 0.3467 – val_loss: 0.8278 – val_accuracy: 0.7600
```

Limitations

We created a basic model to train our data and this was a basis to create the company that we are presenting today. We created this model with limited data and limited computational resources, which lead to many obstacles in our way, including underfitting, overfitting, and limited GPU. With your investment, we could invest in more data and more computational resources, and we plan on improving our future models tenfold.

Business Model

0 1

Innovate
Acquire resources to train AI models

0 3

Grow & Give Back
We grow the business and aid the community

Initialization
Your Investment

0 2

Deployment
Market and sell AI health solutions

0 4