

About CoDoctor

CoDoctor is a medical Q&A app that can provide reliable information about Covid-19 and other health issues in multiple languages. It is designed to be a helpful resource when a doctor is not immediately available.





Project Steps

How we got it done in a Jiffy!

Data Collection

We collected datasets from two sources

Data Wrangling

We cleaned each dataset and concatenate them

Training the Model

We trained the data using Co:here multilingual model

Save the trained Model

Here we saved the model to use in production

Application Production

We made an application using Streamlit

Deployment

We deployed to Streamlit Community Cloud





App Demo



Inside the workings

Trained model

The dataset was passed through the Co:here Multilingual Model

Because of time and computational power(Trial API-key) we only allowed the model to on Covid-19, we can add more in future

- The modem
 vectorized/embedded the text.
- Then saved the embeddings in a way that it can be called or compared to other text embeddings
- Using distance to compare vectors

Input Query

When a query is imputed, it is quickly ran through the Co:here multilingual model

The query is immediately vectorized and embedded, the embeddings gets compared with the saved embeddings

- Using Nearest neighbor algorithm and minimum distance, we get the most relevant data that closely compared to the query
- Then the query initiates a response that is in ascending order of the similarity



Limitations

- Limited to Covid-19
- Limited Time
- Limited dataset
- Limited computational power (Trial API)
- Only basic features on the application

Future

- Get more dataset
- Include more features on the application like language choice.
- Get telecommunication companies to make it readily available to subscribers.



Thank you



