

TYLER: Workflow

Step 1: Data Collection

1. Record



Record an audio and tell us how your day was? What did you feel?

2. Process



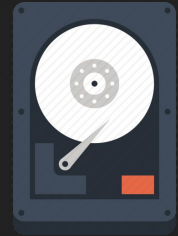
Detect emotion from the audio and symptoms from transcript of recording.

Store emotion & associated details in MongoDB

Store audio transcript & symptoms in Elasticsearch

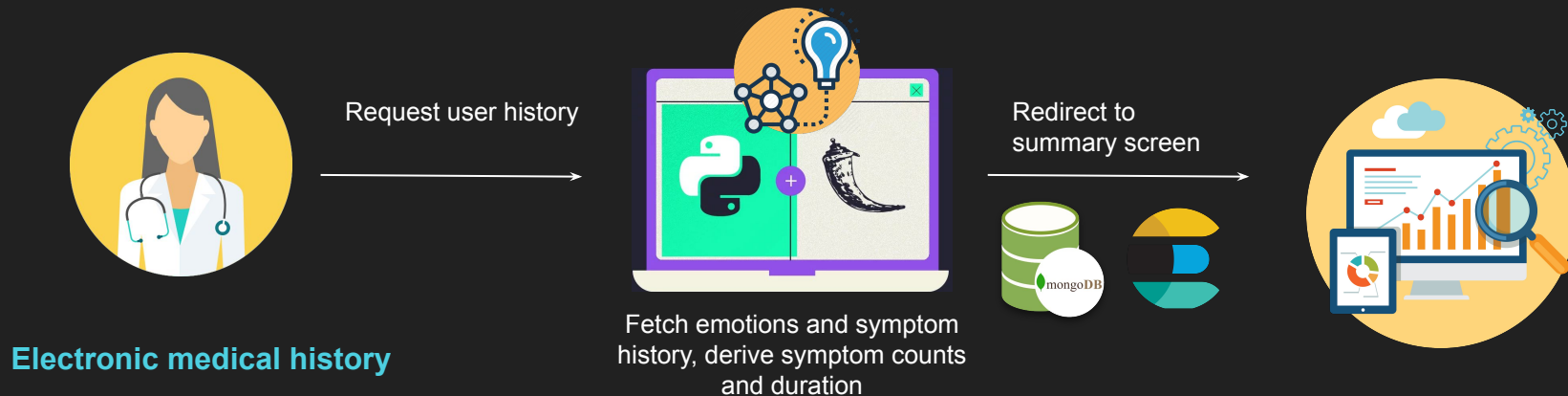
Save the audio recording on local/cloud storage

3. Store

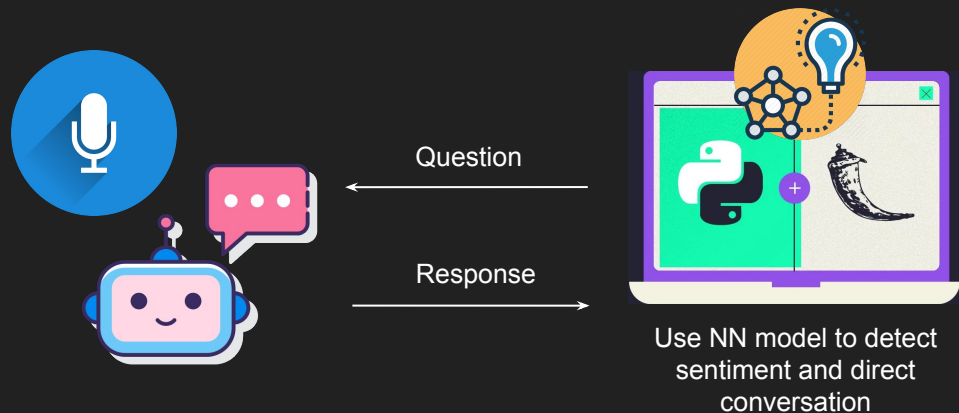


TYLER: Workflow

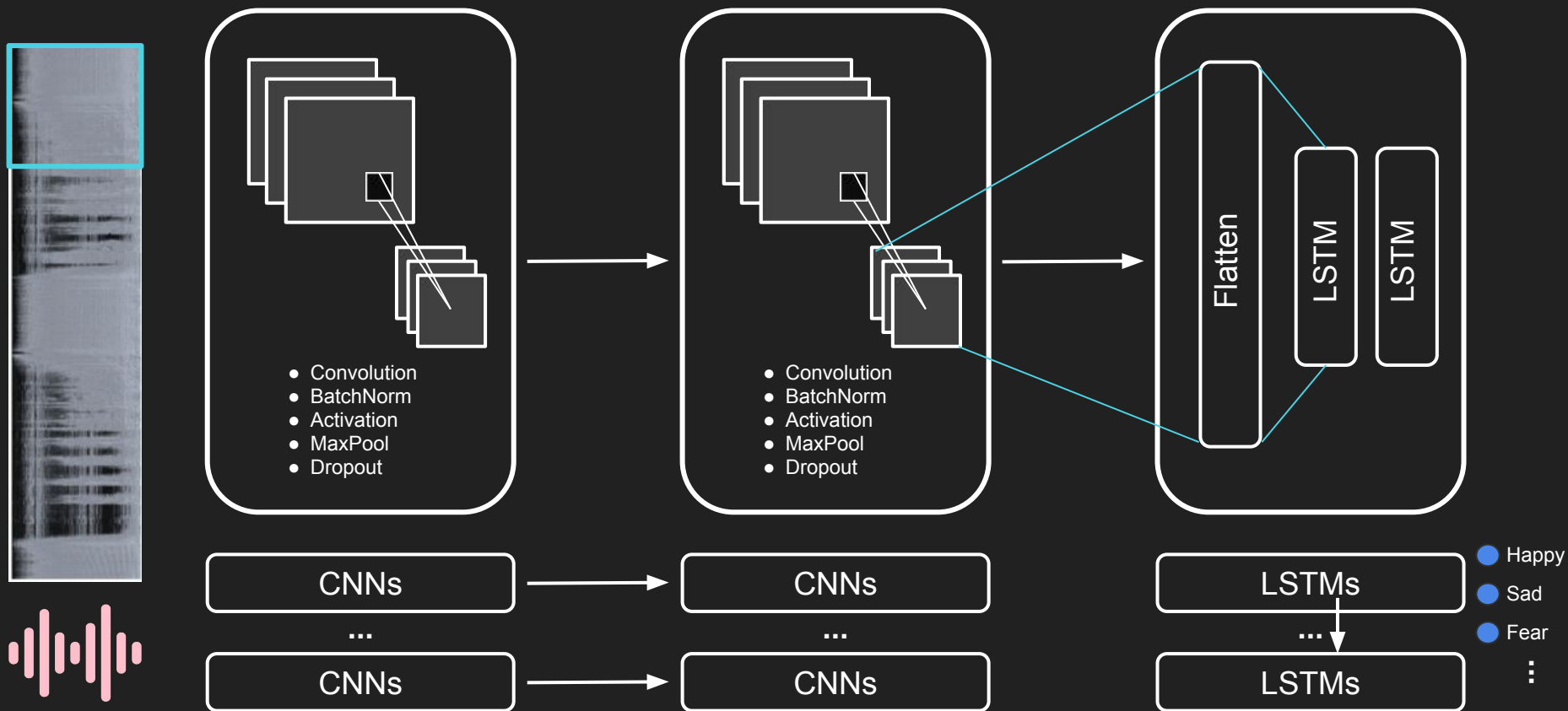
Step 2: Knowledge Derivation



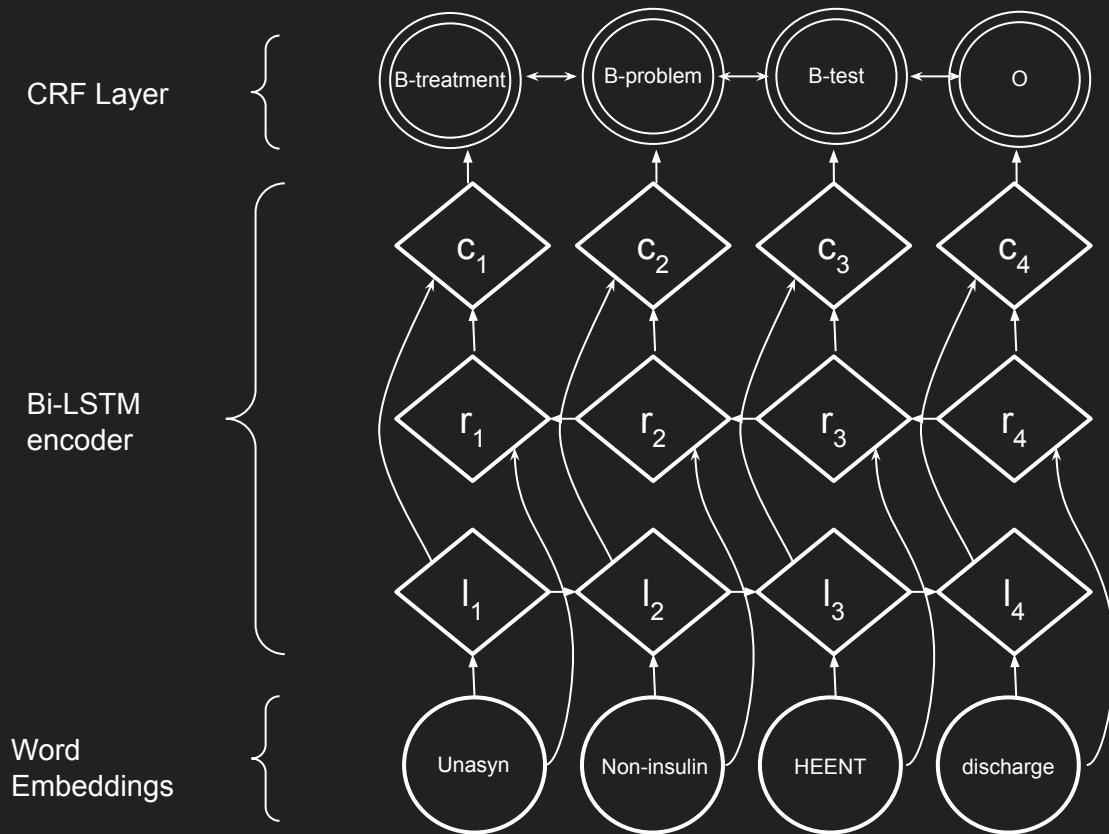
Cognitive Behaviour Therapy Chatbot



Audio Emotion: *Time Distributed CNN-LSTM*

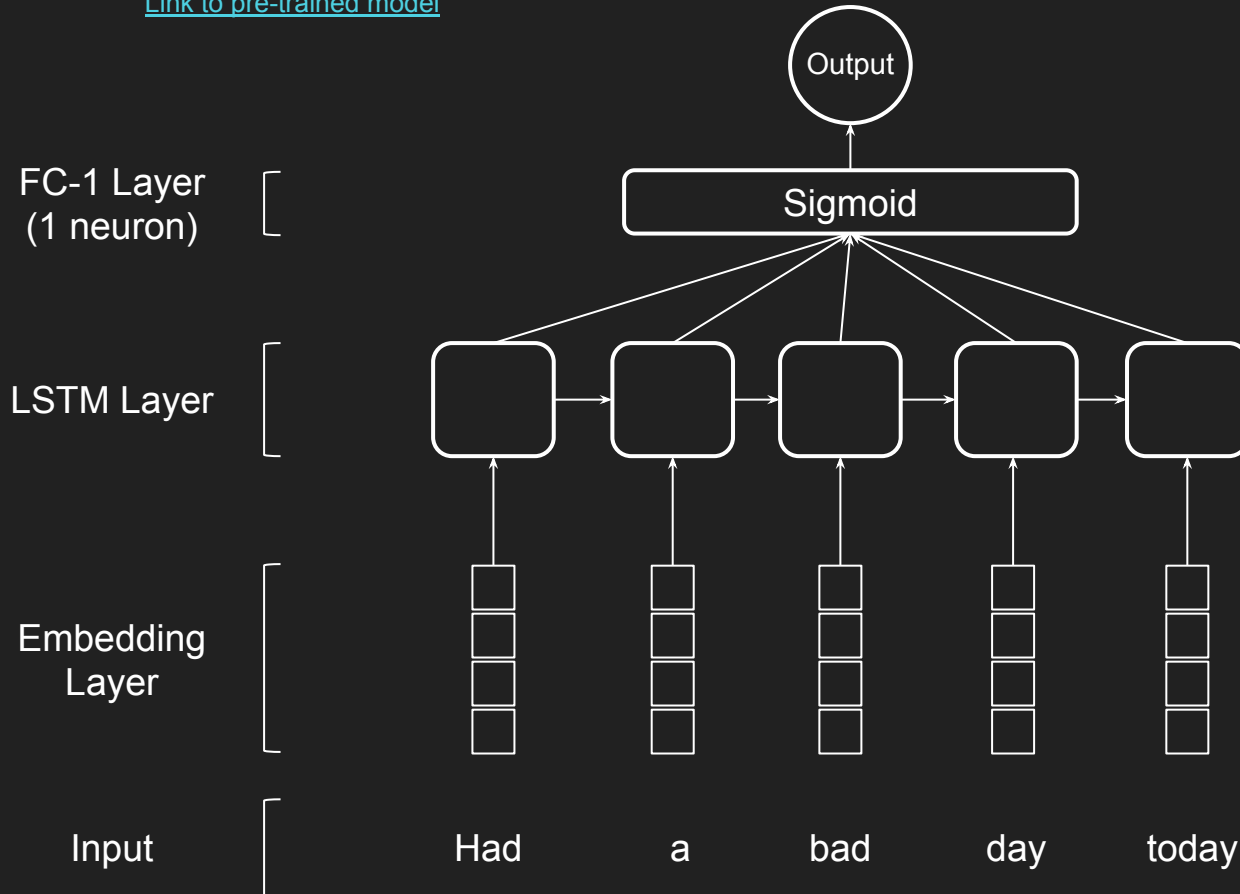


Clinical NER: *Bi-LSTM-CRF* Model



CBT Chatbot: *LSTM with Word Embeddings*

[Link to pre-trained model](#)



Phase 1: *Everything we've done so far*



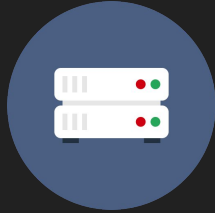
Audio Emotion
Detection



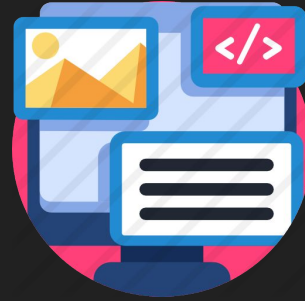
Symptom
tagging in text



Deploying neural
network models via
Flask API



Databases for
storage & tracking



Click on the below link to
view the mockup:
[\[View Mockup\]](#)

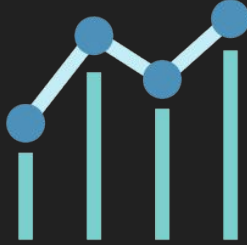


Click on the below link to
view the demo:
[\[View Demo\]](#)

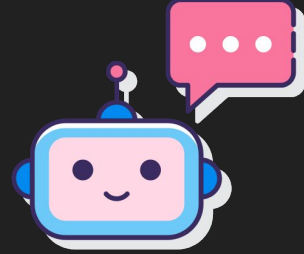
Phase 2: *Next steps*



Doctor Registration



**View summarized
Medical History**



**Integrate CBT chatbot
on the app**