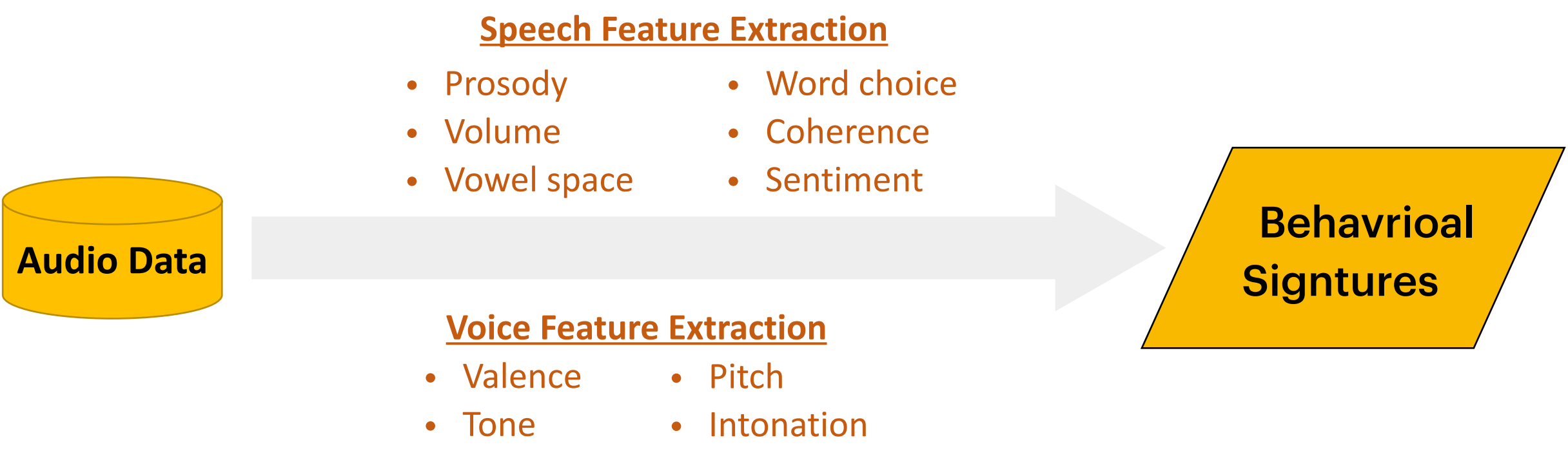
Rose Voice

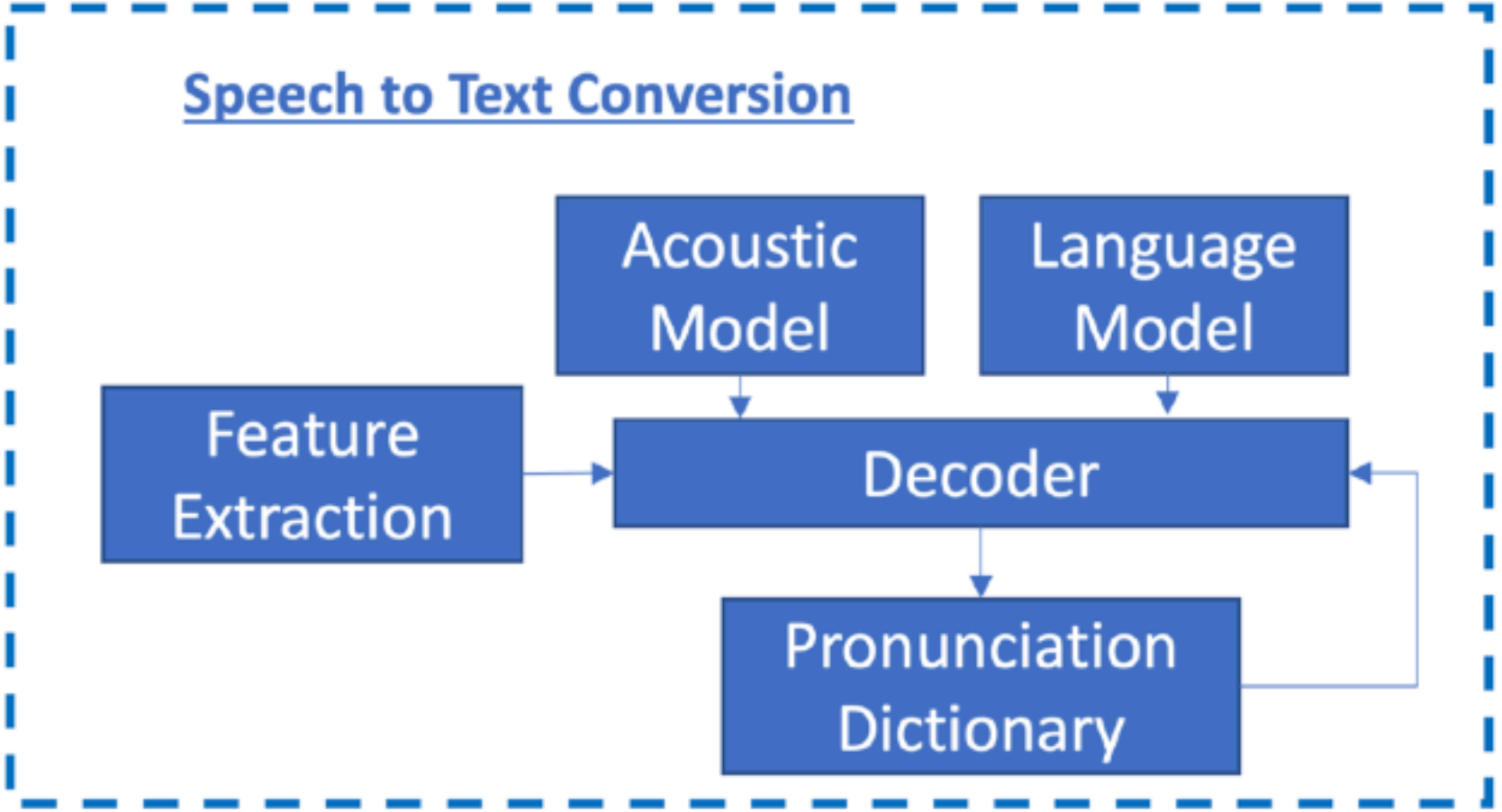
ROSE
HEALTH

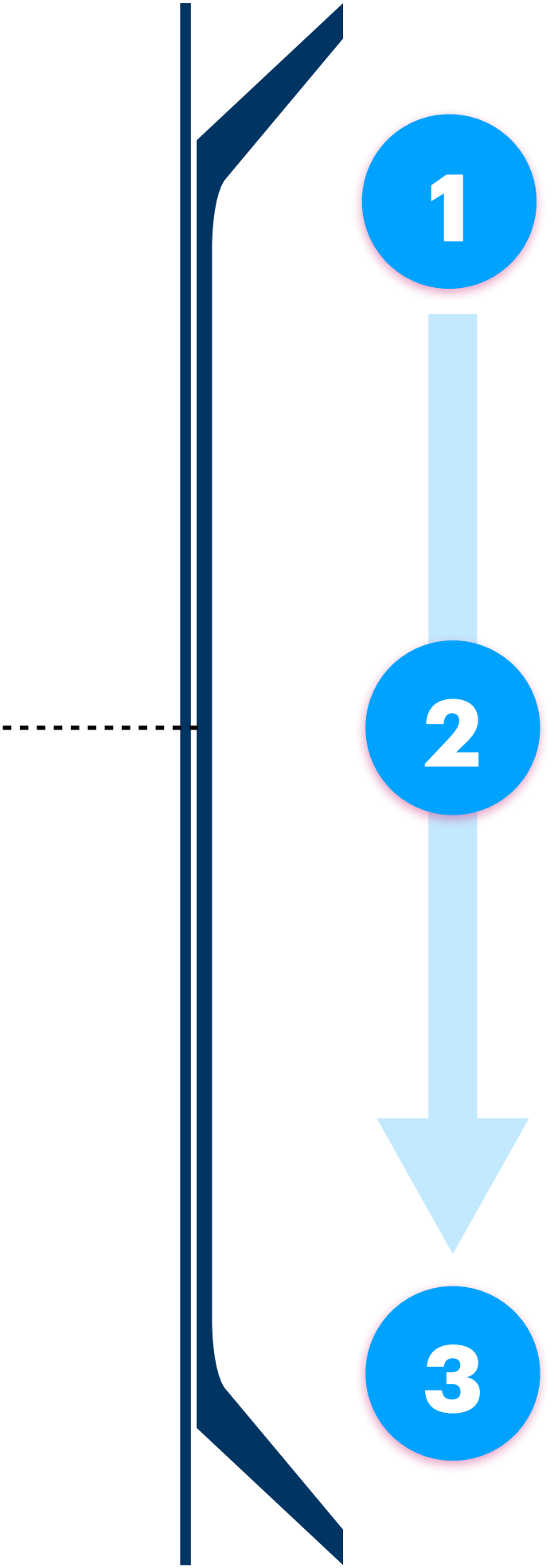
Audio i/p from Rose

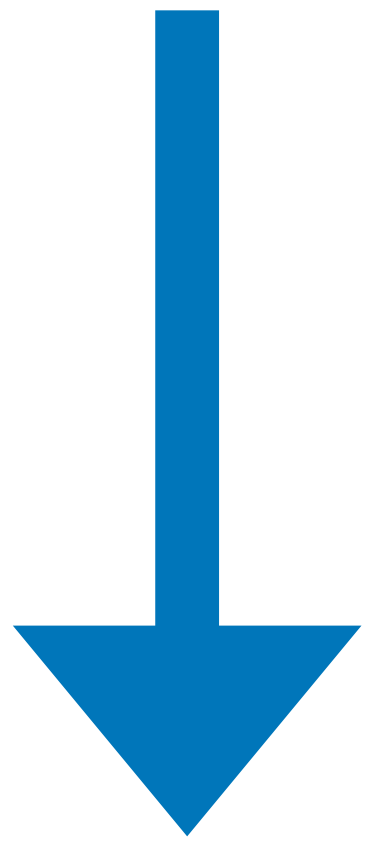

Speech Feature Extraction
Prosody
Volume
Vowel space
Word choice
Coherence
Sentiment
Audio Data
Behavrioal Signtures
Voice Feature Extraction
Valence
Tone
Pitch
Intonation

hello

amazon alexa


Speech to Text Conversion
Acoustic Model
Language Model
Feature Extraction
Decoder
Pronunciation Dictionary


1
2
3



Directed Journalling

Interactive Assessments

Engage-able Content

Rose Voice

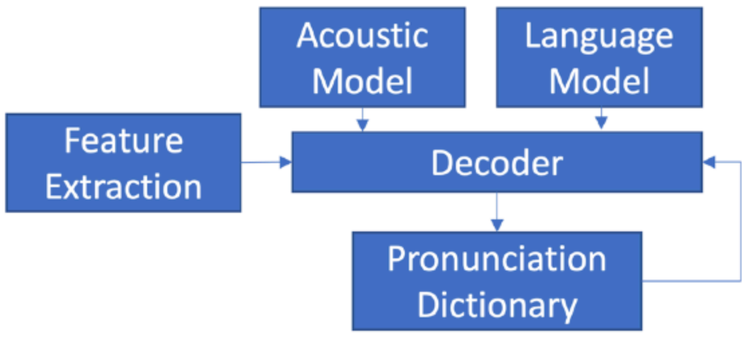
ROSE HEALTH

hello

amazon alexa

Audio i/p from Rose

Speech to Text Conversion



1

2

3

Directed Journalling

Interactive Assessments

Engage-able Content

Audio Data

Speech Feature Extraction

- Prosody
- Volume
- Vowel space
- Word choice
- Coherence
- Sentiment

Voice Feature Extraction

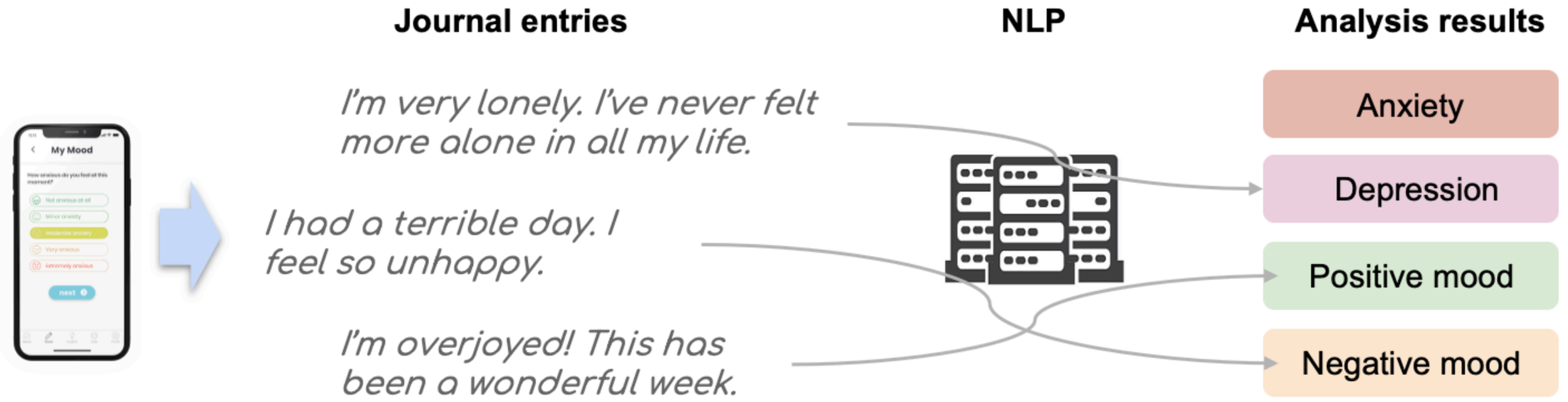
- Valence
- Tone
- Pitch
- Intonation

Behavrioal Signtures

NLP System

Background

We train NLP models using carefully curated data that expresses depression, anxiety, positive moods and negative moods. Once trained, an NLP model predicts the semantic tone of new, incoming text as belonging to one of these four categories.



We evaluate our models via a **2-stage process**, to ensure they aren't disproportionately associating specific words with specific categories