OBSERVE.AI – ML Engineer (Speech)

# **Slot: 1**

# **Procedure**

1. CV Screening
2. Interview Mode: Physical (Venue: OCCAP)

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# Dona Burman

**Personal View**: **Status**: Rejected after ML formulation round

**Interview Description**

## **Round 1:**

Case Study Question- You have two datasets- one with mixed audios of English and Hindi and mixed emotions and another that has audios each containing one language and one emotion. You have to formulate an optimal way to separate them and classify the audios based on the emotions.

My approach- Using Mel spectrogram or FFT to separate the audios based on the frequency. One thing that can be done is using LSTM for classification (esp for first dataset), and for the second dataset, we can get the embeddings, use some clustering algorithm.

After some more discussion the interviewer approved of this idea and asked me to code for it. However, it was a lengthy question, and I could only obtain the embeddings and train the model but couldn’t test it.

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