Samsung (Embedded Systems)

# **Slot: 1**

# **Procedure**

1. Test: MCQ (from programming), coding section
2. Interview Mode: Physical (Venue: Raman Building)

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# Dona Burman

**Personal View**: Due to my AI/ML profile, they asked me some questions related to AI/ML architecture which was not done for other students. Apart from that, the rest of the round was more focused on algorithms and sometimes on the syntax of C/C++.

Questions related to ML were situations oriented (In a particular situation, what kind of model or algorithm would be working well, justify). That section went smoothly.

I could not answer the bit manipulation part that well. I had some minor hiccups with the syntax part but did fine with the puzzle part.

**Status**: Went till HR round, rejected

**Interview Description**

## **Round 1:**

This round went on for 1 hour.

First 5-10 mins- Explained about his

Next 25-30 mins- Questions on projects, transformer architecture, Encoder-Decoder, Regularization, Naive Bayes, XG Boost, MFCC, embeddings.

Last Half- Questions on bit manipulation, pointers, asked to write the syntax, asked about compiler architecture, storing local, global, dynamic, and constant variables in stack, data, heaps etc. Finally asked a puzzle question.

Puzzle Question- Suppose you have a car where 4 tyres can only go until 5 km, and you have a spare tyre that can also go till 5 kms. What would you do so that the car can go beyond 5 km?

My approach- Suppose the tyres have 100% efficiency at first, so you drive for a km, then change one of the tires with the spare one so that now one has 100% efficiency, and the rest have 80%. After crossing the next km, change another tyre with the spare. So now two tyres have 80% efficiency and the rest 60%. You keep iterating like that. (There can be better approaches, but he seemed to be fine with this one).

Ending- He informed me about how little they use ML in their sector. So, this sector might not be the one I am looking for.

## **HR Round:**

Personal Introduction.

Asked me about switching my major and difficulties faced.

About my hobbies.

Job location preference.

Finally asked me if embedded software is what I wish to do. I answered that this will be an interesting sector to work in, but I can see the difference in what I have prepared for and what this profile would demand.

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