Cracking the PM interview 🚀

Case Study Solution (Method 2) - Estimate the average number of daily flights (landing and take-off) at Mumbai airport in India.

Case study - **Guesstimate**

Estimate the average number of daily flights (landing and take-off) at Mumbai airport in India

Solution (Method 2) - Estimate the daily flights at Mumbai airport

In this method, let's use time as the base to estimate the daily possible flights that land or take-off from Mumbai airport.

Let's divide the day into 3 time zones:

⇒ Low density timezone = 4 hours (In this timezone, assumption is that very limited flights operates. And, these would be usually middle of the night.)

⇒ Medium density timezone = 4 hours (In this timezone, assumption is that less flights operates. And, this time would be just before and after the low density timezone.)

⇒ High density timezone = 16 hours (In this timezone, assumption is that most of the flights operates. And, this would be the highest traffic time zone.)

Let's assume that on an average each flight takes below time to either land of take-off in the respective time zones:

⇒ Low density = 12 minutes per flight
⇒ Medium density = 6 minutes per flight
⇒ High density = 1.25 minutes (75 seconds) per flight

Solution (Method 2) - Estimate the daily flights at Mumbai airport

⇒ Total daily flights =

(Total minutes in low density timezone / Average minutes per flight in low density timezone) +
(Total minutes in medium density timezone / Average minutes per flight in medium density timezone) +
(Total minutes in high density timezone / Average minutes per flight in high density timezone)

⇒ Total daily flights = (4*60 / 12) + (4*60 / 6) + (16*60 / 1.25)

= 20 + 40 + 768

= 828 flights per day

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Thank you!