

# Summary Report

## Data Analysis using Prompt Engineering and LLM

Generate detailed summary reports for each batch (morning, afternoon, evening).

	Batch	Total Duration	Average Duration	Standard Deviation	Above Average (%)
0	Morning	9248.0	12.773481	10.175966	51.243094
1	Afternoon	4210.5	19.052036	18.198608	26.696833
2	Evening	9327.5	16.109672	15.253554	31.778929

Generate a combined summary report comparing all three batches

Comparative Analysis:					
	Batch	Total Duration	Average Duration	Standard Deviation	Above Average (%)
	Morning	9248.0	12.773481	10.175966	51.243094
	Afternoon	4210.5	19.052036	18.198608	26.696833
	Evening	9327.5	16.109672	15.253554	31.778929
Combined Summary Report:					
-----					
Total Duration:					
	Morning: 9248 minutes				
	Afternoon: 4210.5 minutes				
	Evening: 9327.5 minutes				
Average Duration:					
	Morning: 12.77 minutes				
	Afternoon: 19.05 minutes				
	Evening: 16.11 minutes				
Standard Deviation:					
	Morning: 10.18 minutes				
	Afternoon: 18.20 minutes				
	Evening: 15.25 minutes				
Percentage Above Average Duration:					
	Morning: 51.24%				
	Afternoon: 26.70%				
	Evening: 31.78%				

Here are the detailed textual summary reports for each batch (morning, afternoon, evening) and a combined summary report comparing all three batches.

## Morning Batch Report

The Morning batch has shown significant attendance duration statistics:

- **Total Duration:** The total attendance duration for the Morning batch is 9248 minutes. This high total indicates substantial engagement from the participants during morning sessions.
- **Average Duration:** On average, participants attended for 12.77 minutes. This average duration provides an insight into the typical session length for the morning batch.
- **Standard Deviation:** The standard deviation of 10.18 minutes suggests that there is considerable variability in the attendance durations. Some participants attend for much longer or shorter periods than the average.
- **Percentage Above Average:** 51.24% of the participants attended more than the average duration of 12.77 minutes. This indicates that over half of the participants are engaged for longer than the typical session length, showcasing strong attendance commitment in the morning.

## Afternoon Batch Report

The Afternoon batch demonstrates a different pattern of attendance duration:

- **Total Duration:** The total attendance duration for the Afternoon batch is 4210.5 minutes. This is lower than the Morning batch, indicating fewer overall attendance minutes during the afternoon sessions.
- **Average Duration:** The average duration per participant is higher at 19.05 minutes, suggesting that those who do attend in the afternoon tend to stay longer per session.
- **Standard Deviation:** A standard deviation of 18.20 minutes points to a wide range of attendance durations, indicating diverse participation levels.
- **Percentage Above Average:** Only 26.70% of participants attended more than the average duration of 19.05 minutes. This relatively low percentage shows that most participants' attendance times are clustered around or below the average, reflecting a more concentrated pattern of attendance.

## Evening Batch Report

The Evening batch stands out with its attendance duration metrics:

- **Total Duration:** The total attendance duration for the Evening batch is 9327.5 minutes, the highest among all batches. This highlights a strong overall engagement during evening sessions.
- **Average Duration:** Participants in the Evening batch attended for an average of 16.11 minutes. This average is higher than the Morning but lower than the Afternoon batch.
- **Standard Deviation:** With a standard deviation of 15.25 minutes, there is considerable variability in how long participants stay for evening sessions.
- **Percentage Above Average:** 31.78% of the participants attended more than the average duration of 16.11 minutes. While not as high as the Morning batch, this still indicates a significant portion of participants are highly engaged during evening sessions.

## Combined Batch Report

Analyzing all three batches together provides a comprehensive view of attendance patterns:

- **Total Attendance Duration:** The Evening batch leads with the highest total attendance duration of 9327.5 minutes. This suggests evening sessions are the most attended in terms of total minutes.
- **Average Attendance Duration:** The Afternoon batch has the highest average attendance duration per participant at 19.05 minutes, which exceeds the overall average of 15.98 minutes. This indicates that afternoon participants tend to stay longer per session on average.
- **Standard Deviation:** The Afternoon batch also has the highest standard deviation of 18.20 minutes, indicating the widest range of attendance durations among participants.
- **Percentage Above Average:** The Morning batch has the highest percentage of participants attending more than the average duration at 51.24%. This shows strong participant commitment during morning sessions.

# Prompts Used and Responses from ChatGPT-4

## Morning Batch Report Prompt:

### Prompt:

Based on the following data for the Morning batch:

- Total Duration: 9248 minutes
- Average Duration: 12.77 minutes
- Standard Deviation: 10.18 minutes
- Percentage Above Average: 51.24%

Generate a textual summary report highlighting key findings about attendance duration for the Morning batch.

### Generated Report:

The Morning batch shows robust attendance metrics:

- The total duration of 9248 minutes indicates substantial engagement over the reporting period.
- Participants attended, on average, for 12.77 minutes per session, with a standard deviation of 10.18 minutes, suggesting moderate variability in session lengths.
- Notably, 51.24% of participants attended sessions exceeding the average duration, reflecting strong participant engagement and commitment.

## Afternoon Batch Report Prompt:

### Prompt:

Based on the following data for the Afternoon batch:

- Total Duration: 4210.5 minutes
- Average Duration: 19.05 minutes
- Standard Deviation: 18.20 minutes
- Percentage Above Average: 26.70%

Generate a textual summary report highlighting key findings about attendance duration for the Afternoon batch.

### Generated Report:

The Afternoon batch displays distinct attendance characteristics:

- The total duration of 4210.5 minutes reflects fewer overall attendance minutes compared to other batches.
- Participants attended, on average, for 19.05 minutes per session, with a higher standard deviation of 18.20 minutes, indicating wide variability in session lengths.
- However, only 26.70% of participants attended sessions exceeding the average duration, suggesting a concentration of participation around the average session length.

### **Evening Batch Report Prompt:**

#### **Prompt:**

Based on the following data for the Evening batch:

- Total Duration: 9327.5 minutes
- Average Duration: 16.11 minutes
- Standard Deviation: 15.25 minutes
- Percentage Above Average: 31.78%

Generate a textual summary report highlighting key findings about attendance duration for the Evening batch.

### **Generated Report:**

The Evening batch demonstrates notable attendance patterns:

- The total duration of 9327.5 minutes indicates strong attendance during evening sessions.
- Participants attended, on average, for 16.11 minutes per session, with a standard deviation of 15.25 minutes, showing moderate variability in session lengths.
- Approximately 31.78% of participants attended sessions exceeding the average duration, reflecting a balanced engagement level during evening sessions.

### **Combined Batch Report Prompt:**

#### **Prompt:**

Considering the reports for all three batches (Morning, Afternoon, Evening):

- Total attendance duration was highest in the Evening batch with 9327.5 minutes.
- The average attendance duration was highest in the Evening batch (19.05 minutes), exceeding the overall average of 15.98 minutes.

- The standard deviation of attendance duration was 18.20 minutes, indicating the highest variability.
- The percentage of participants exceeding the average duration was highest in the Evening batch at 51.24%.

Generate a textual summary report comparing attendance duration metrics across all three batches.

### **Generated Report:**

Considering all batches, here are the attendance duration highlights:

- The Evening batch recorded the highest total attendance duration of 9327.5 minutes, indicating strong overall engagement during evening sessions.
- The Afternoon batch had the highest average attendance duration per participant at 19.05 minutes, surpassing the overall average of 15.98 minutes.
- With a standard deviation of 18.20 minutes, the Afternoon batch exhibited the widest range of attendance durations among participants.
- Notably, the Morning batch had the highest percentage (51.24%) of participants attending sessions exceeding the average duration, showcasing robust participant commitment during morning sessions.