**{{Exam\_Title}}**

**DATA ANALYTICS**

🎓Batangas State University - {{Campus}}

This document summarizes all the processed data from the session **{{Session\_Name}}** that was analyzed by **{{Instructor\_Name}}** last **{{Date\_Processed}}**. The data presented here is based on the findings and detections of the AI model developed and trained by our research group for the academic year {{**Acad\_year}}**.

Please note that this document does not contain any personal information of students, such as names, grades, or ages. It strictly presents **metrics and visualizations** of student behavior data as detected by the AI. This report is intended for research and analysis purposes only and **must not be used as the sole basis** for evaluating student performance or behavior. The AI system is a tool to assist in understanding behavioral patterns, but human judgment and contextual interpretation remain essential in any assessment.

**Document Details**

Analytics ID

{{Analytics\_ID}}

Processed By

{{Instructor\_Name}}

Date Processed

{{Date\_Processed}}, {{Time\_Processed}}

Date Downloaded

{{Date\_Downloaded}}, {{Time\_Downloaded}}

File Name

{{File\_Name}}

File Size

{{File\_Size}}

### **AI ANALYTICS DATA**

AI Analytics Data Title

{{Title\_AI}}

Session Name

{{Session\_Name}}

Date & Time Processed

{{AI\_Date\_Processed}}, {{AI\_Time\_Processed}}

Processed By

{{AI\_Instructor\_Name}}

Front Video Directory/Path

{{AI\_Front\_File\_Path}}

**Front Video Details:**

File Name

{{AI\_Front\_File\_Name}}

File Size

{{AI\_Front\_File\_Size}}

Created Date

{{AI\_Front\_Date\_Created}}

Video Length

{{AI\_Front\_Video\_Length}}

Center Video Directory/Path

{{AI\_Center\_File\_Path}}

**Center Video Details:**

File Name

{{AI\_Center\_File\_Name}}

File Size

{{AI\_Center\_File\_Size}}

Created Date

{{AI\_Center\_Date\_Created}}

Video Length

{{AI\_Front\_Video\_Length}}

**Heatmap Graph Color Key:**

**—--Blue:** Sitting

**—--Orange:** Extending Right Arm

**—--Green:** Extending Left Arm

**—--Red:** Standing

**—--Purple:** Turning Around

{{Heatmap\_All\_Actions\_AI}}

*Diagram 1.1 Heatmap for All Actions*

{{Heatmap\_Sitting\_Actions\_AI}}

*Diagram 1.2 Heatmap for Sitting Actions Only*

{{Heatmap\_ExtendingRight\_Actions\_AI}}  
*Diagram 1.3 Heatmap for Extending Right Arm Actions Only*

{{Heatmap\_ExtendingLeft\_Actions\_AI}} *Diagram 1.4 Heatmap for Extending Left Arm Actions Only*

{{Heatmap\_Standing\_Actions\_AI}}  
*Diagram 1.5 Heatmap for Standing Actions Only*

{{Heatmap\_Turning\_Around\_Actions\_AI}}  
*Diagram 1.6 Heatmap for Turning Around Actions Only*

**Line Graph Color Key:**

**—--Blue:** Sitting

**—--Orange:** Extending Right Arm

**—--Green:** Extending Left Arm

**—--Red:** Standing

**—--Purple:** Turning Around

{{LineGraph\_All\_Actions\_AI}}  
*Diagram 2.1 Line Graph for All Actions*

{{LineGraph\_Sitting\_Actions\_AI}}  
*Diagram 2.2Line Graph for Sitting Actions Only*

{{LineGraph\_ExtendingRight\_Actions\_AI}}  
*Diagram 2.3 Line Graph for Extending Right Arm Actions Only*

{{LineGraph\_ExtendingLeft\_Actions\_AI}}  
*Diagram 2.4Line Graph for Extending Left Arm Actions Only*

{{LineGraph\_Standing\_Actions\_AI}}  
*Diagram 2.5 Line Graph for Standing Actions Only*

{{LineGraph\_Facing\_Downward\_AI}}  
*Diagram 2.6 Line Graph for Facing Downward Only*

{{LineGraph\_Facing\_Left\_AI}}  
*Diagram 2.7 Line Graph for Facing Left Only*

{{LineGraph\_Facing\_Right\_AI}}  
*Diagram 2.8 Line Graph for Facing Right Only*

{{LineGraph\_Facing\_Forward\_AI}}  
*Diagram 2.9 Line Graph for Facing Forward Only*

**Table Image of Logs**

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**Conclusion:**

Insert generalizations and summary

### 

### **ADVANCED ANALYTICS DATA**

Advanced Analytics Data Title

{{Title\_Advanced}}

Session Name

{{Advanced\_Session\_Name}}

Date & Time Processed

{{Advanced\_Date\_Processed}}, {{Advanced\_Time\_Processed}}

Processed By

{{Advanced\_Instructor\_Name}}

Front Video Directory/Path

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**Front Video Details:**

File Name

{{Advanced\_Front\_File\_Name}}

File Size

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Created Date

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Video Length

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Center Video Directory/Path

{{Advanced\_Center\_File\_Path}}

**Center Video Details:**

File Name

{{Advanced\_Center\_File\_Name}}

File Size

{{Advanced\_Center\_File\_Size}}

Created Date

{{Advanced\_Center\_Created\_Date}}

Video Length

{{Advanced\_Center\_Video\_Length}}

#### **Head Movement Analysis (Line Graph & Data Summary)**

**Line Graph Color Key:**

**—--Blue:** Looking Right (>90 degrees)

**—--Orange:** Looking Left (<80 degrees)

**—--Green:** Looking Down

**—--Red:** Facing Forward

**—--Purple:** Looking Up

**- - - Dash Line:** Total Students

{{LineGraph\_HeadMovement\_Analysis}}

*Diagram 1.1 Number of Students per Head Movement Over Time*

**Description:**

Total number of students detected

{{Head\_Total\_Students}}

**Top 3 time frames with highest head movement actions:**

**—--**At **{{Head\_Time}}**, **{{Number\_of\_Students\_Right}} students** looking right (>90 degrees)

**—--**At **{{Head\_Time}}**, **{{Number\_of\_Students\_Left}} students** looking left (<80 degrees)

**—--**At **{{Head\_Time}}**, **{{Number\_of\_Students\_Down}} students** looking down

#### **Arm Movement Analysis (Line Graph & Data Summary)**

**Line Graph Color Key:**

**—--Blue:**

**—--Orange:**

**—--Green:**

**—--Red:**

**—--Purple:**

**- - - Dash Line:** Total Students

{{LineGraph\_ArmMovement\_Analysis}}

*Diagram 1.2 Number of Students per Arm Movement Over Time*

**Description:**

Total number of students detected

{{Arm\_Total\_Students}}

**Top 3 time frames with highest arm movement actions:**

At **{{Arm\_Time}}**, **{{Number\_of\_Students\_Extended}} students** extended their arms

At **{{Arm\_Time}}**, **{{Number\_of\_Students\_Raised}} students** raised their arms

At **{{Arm\_Time}}**, **{{Number\_of\_Students\_Crossed}} students** crossed their arms

**Heatmap Graph Color Key:**

**—--Blue:** Sitting

**—--Orange:** Extending Right Arm

**—--Green:** Extending Left Arm

**—--Red:** Standing

**—--Purple:** Turning Around

{{Heatmap\_All\_Actions\_Advanced}}

*Diagram 3.1 Heatmap for All Actions*

{{Heatmap\_Sitting\_Actions\_Advanced}}

*Diagram 3.2 Heatmap for Sitting Actions Only*

{{Heatmap\_ExtendingRight\_Actions\_Advanced}}  
*Diagram 3.3 Heatmap for Extending Right Arm Actions Only*

{{Heatmap\_ExtendingLeft\_Actions\_Advanced}} *Diagram 3.4 Heatmap for Extending Left Arm Actions Only*

{{Heatmap\_Standing\_Actions\_Advanced}}  
*Diagram 3.5 Heatmap for Standing Actions Only*

{{Heatmap\_Turning\_Around\_Actions\_Advanced}}  
*Diagram 3.6 Heatmap for Turning Around Actions Only*

**Line Graph Color Key:**

**—--Blue:** Sitting

**—--Orange:** Extending Right Arm

**—--Green:** Extending Left Arm

**—--Red:** Standing

**—--Purple:** Turning Around

{{LineGraph\_All\_Actions\_Advanced}}  
*Diagram 4.1 Line Graph for All Actions*

{{LineGraph\_Sitting\_Actions\_Advanced}}  
*Diagram 4.2Line Graph for Sitting Actions Only*

{{LineGraph\_ExtendingRight\_Actions\_Advanced}}  
*Diagram 4.3 Line Graph for Extending Right Arm Actions Only*

{{LineGraph\_ExtendingLeft\_Actions\_Advanced}}  
*Diagram 4.4Line Graph for Extending Left Arm Actions Only*

{{LineGraph\_Standing\_Actions\_Advanced}}  
*Diagram 4.5 Line Graph for Standing Actions Only*

{{LineGraph\_TurningAround\_Actions\_Advanced}}  
*Diagram 4.6 Line Graph for Turning Around Actions Only*

**Table Image of Logs**

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**Conclusion:**

Insert generalizations and summary