

Department of Artificial Intelligence and Machine Learning

Group No: 14

IPD Project A Weekly Report (2023-24)

Week No: 8 Date:\_

Title of Project: OMAD Time: -

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| **Sr.No** | **Sap id** | **Name of the Students** | **Signature** |
| 1 | 60017210016 | Abhay Mathur |  |
| 2 | 60017210019 | Mahir Madhani |  |
| 3 | 600172100 | Darsh Thakkar |  |
| 4 | 600172100 | Omar Shaikh |  |

To be filled by Students only

Activities Completed this week:

**Acquiring knowledge and implementing fast SAM on a demo dataset.**

To apply FastSAM, we started by preprocessing the hyperspectral data, selected pure pixel spectra (endmembers), and then calculated spectral angles between each pixel and the endmembers. Subsequently, we classified pixels based on their similarity to the chosen endmembers. FastSAM was highly valuable for material classification in remote sensing but wasn't typically used for general 2D image analysis.

Project Status: \_\_\_\_\_\_\_\_\_\_

Major Issues: Despite achieving high accuracy, the model isn’t flexible enough for us to train it with a dataset. This was a major issue that we faced with fast SAM.

Next Week Plan: Learn and execute YoloV8 as the previous two models didn’t give the results put to the mark.

**Project Guide Remark:** Excellent ⧠ Good ⧠ Satisfactory ⧠ Not Satisfactory ⧠

Comment by Guide:

Project Guide Name & Signature: