

## Weekly Report – Week 6

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# Project Name: Person Re-identification

**Course Name:** CSE641 Computer Vision

**Professor Name:** Prof Mehul Raval

**University:** Ahmedabad University

### Team Members:

1. **Shlok Shelat** - AU2240025
2. **Shrey Salvi** - AU2240033
3. **Rushi Moliya** - AU2240020

## **Summary of Work Done This Week:**

### **Weekly Report 6:**

#### **Experiments on RSTP-ReID & Closing Analysis Tasks Completed:-**

Models trained on RSTP-ReID using all forms of attention mechanisms.- Finding that FastViT-T8's cross-attention had the best trade off again (Recall@10: 1.0000).- Assembled comparative results for all combinations of attention/image encoders.- Analyzed their implications for inference time vs. memory used and the time spent on training.- Discussed the trade-off between accuracy and resources in practical deployment.

#### **Challenges Faced:-**

GPU memory challenges matching attention to training eg. sparse attention.- Avoiding overfitting because of the strong feature interactions used in cross-attention.

#### **Planned tasks:-**

Finalize report writing and visualization.- Offer future work on hybrid attention mechanisms and generalization across datasets.