

**Problem** : Identify pedestrian from one view and Re-Identify from a different camera view ?

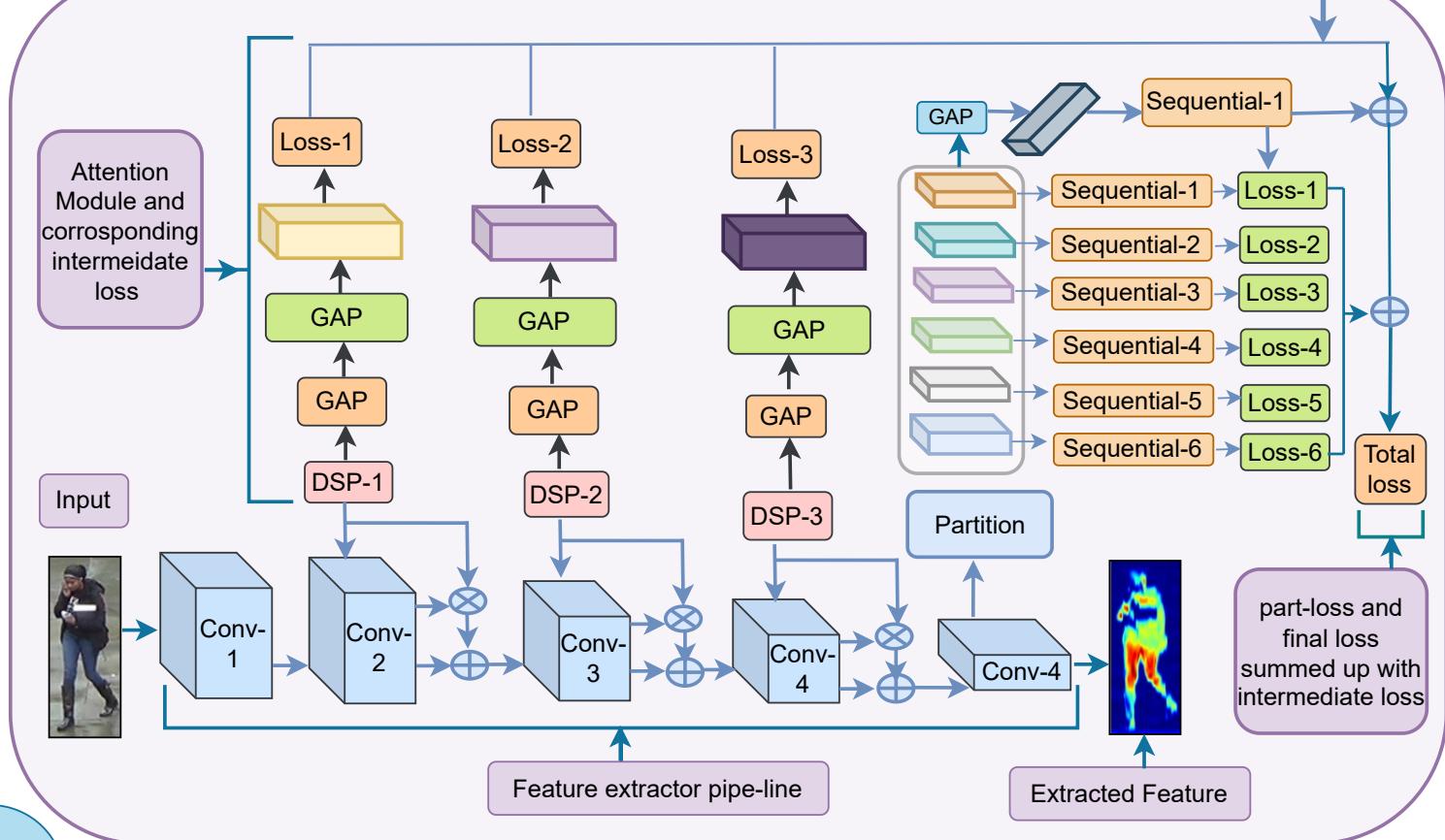
**Proposed Solution** : Deep learning model with self-attention element that extract salient feature and compare pedestrian

**Model design**: Feature extractor , attention module, multi-loss supervision

**Challenges:** in identifying a pair of same pedestrians viewed from different camera ?



## Examples of challenges



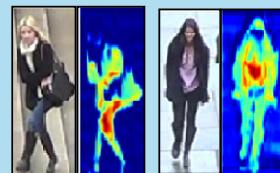
### Results-1 (Empirical):

- For a given query image, the model was able to fetch the match and the following empirical results show the percentage of correct matches being in  $k^{\text{th}}$  rank:-

<u>Dataset</u>	<u>R-1</u>	<u>R-5</u>	<u>R-10</u>
Market-1501	95.9%	97.0%	98.3%
DukeMTNC	90.9%	93.8%	95.0%

### **Results-1 (qualitative):**

- The proposed model extracted efficient features as shown with sample feature



## Results-2 (qualitative):

- Versatile feature extracted:
- Proposed model vs baseline model:-



### Results-3 (qualitative): Correlation analysis for extracted features

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Proposed Model - exhibit robust feature correlation

