

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

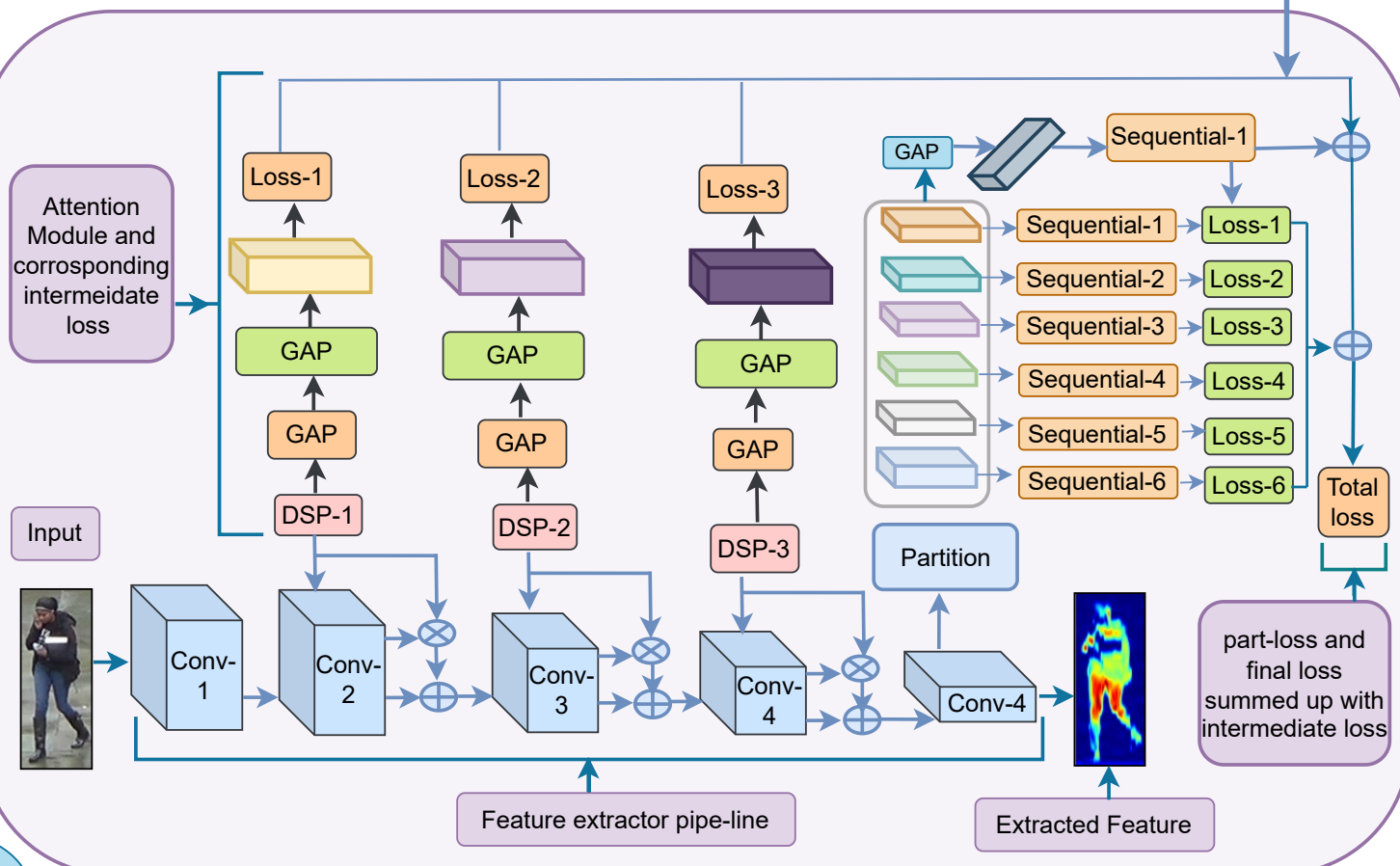
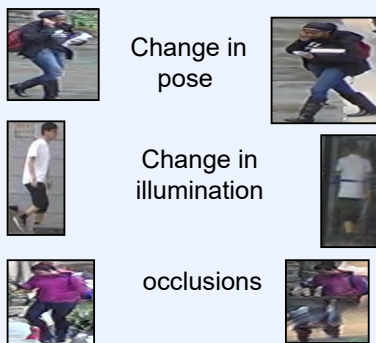
**Proposed Solution** : Deep learning model with self-attention element that extract salient feature and compare pedestrain

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

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



#### Examples of challenges



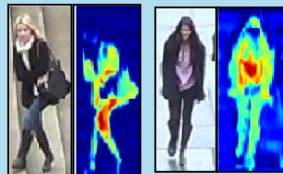
#### Results-1 (Empirical):

- 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:-

Dataset	R-1	R-5	R-10
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

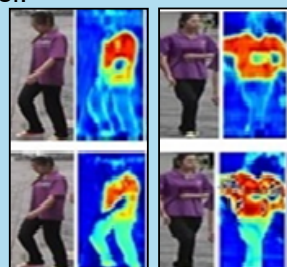


#### Results-2 (qualitative):

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

Baseline

Proposed



#### Results-3 (qualitative):

Correlation analysis for extracted features

**Baseline**-feature are loosely correlated

**Proposed Model** - exhibit robust feature correlation

