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Selected Topics in Computer Science – 2

Team ID : 48

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**Paper Details:**

**Author name:** Rohit Halder, Rajdeep Chatterjee

**Paper name:** CNN‑BiLSTM Model for Violence Detection in Smart Surveillance

**Year Of Publish:** 12 June 2020

**Dataset Used: Real Violence Situation**

**Implemented Algorithms:** CNN, BILSTM

**Results:**

loss: 0.6511 - accuracy: 0.6079

**General Information on the selected dataset:**

**Dataset Used**: Real Violence Situation

**Link**: <https://www.kaggle.com/datasets/mohamedmustafa/real-life-violence-situations-dataset>

**Total Number of Samples:** 287, 369 frames, 2000 videos

**Image Dimensions:** 100x100

**Classes**: 2 Classes

**Labels:** Violence, NonViolence

**Implementation details:**

**Ratio of Train to test:** 9:1

Hyper Parameters:

LR = 0.01

decay = 1e-6

EPOCHS = 25

BATCH\_SIZE = 5

LOSS = categorical\_crossentropy

**Results details:**

In testing:

loss: 0.6511 - accuracy: 0.6079