VA Group 59

Group Member - Ranjoy Sen

```python
In [2]: import tensorflow as tf
        import numpy as np
        import cv2
        import matplotlib
        import matplotlib.pyplot as plt
        from tensorflow_hub import load
        from transformers import pipeline
        import random
        import seaborn as sns
        import mediapipe as mp

        DEPENDENCIES = {
            "TensorFlow": tf.__version__,
            "Matplotlib": matplotlib.__version__,
            "numpy": np.__version__,
            "cv2": cv2.__version__,
            "sns": sns.__version__,
            "mp": mp.__version__,
        }
        print("Dependencies:", DEPENDENCIES)
```

Dependencies: {'TensorFlow': '2.16.2', 'Matplotlib': '3.9.4', 'numpy': '1.2
6.4', 'cv2': '4.11.0', 'sns': '0.13.2', 'mp': '0.10.21'}

Video properties

```python
In [3]: # Load the video
        video_path = "pedestrian_crossover.mp4"
        cap = cv2.VideoCapture(video_path)
        fps = cap.get(cv2.CAP_PROP_FPS)
        frame_count = int(cap.get(cv2.CAP_PROP_FRAME_COUNT))
        width = int(cap.get(cv2.CAP_PROP_FRAME_WIDTH))
        height = int(cap.get(cv2.CAP_PROP_FRAME_HEIGHT))
        print(f"Total Frames: {frame_count}, FPS: {fps}, Width: {width}, Height: {he
```

Total Frames: 913, FPS: 29.97002997002997, Width: 960, Height: 540

Low-level features: color, shape, motion detection

```python
In [4]: # Extract low-level features: color, shape, motion detection
        def extract_low_level_features(video_path):
            """
            Extracts low-level features such as color changes, shape detection using
            and motion detection using frame differences.
            """
            cap = cv2.VideoCapture(video_path)
            ret, prev_frame = cap.read()
            prev_gray = cv2.cvtColor(prev_frame, cv2.COLOR_BGR2GRAY)
            motion_frames = []
```

```python
    color_changes = []

    while cap.isOpened():
        ret, frame = cap.read()
        if not ret:
            break

        # Extract color features by computing average RGB values
        avg_color = np.mean(frame, axis=(0, 1))
        color_changes.append(avg_color)

        # Shape detection using edge detection (Canny algorithm)
        gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
        edges = cv2.Canny(gray, 100, 200)

        # Motion detection using frame difference
        frame_diff = cv2.absdiff(prev_gray, gray)
        motion_frames.append(np.sum(frame_diff))
        prev_gray = gray

    cap.release()

    # Plot motion intensity over time
    plt.figure(figsize=(10, 5))
    plt.plot(motion_frames, label='Motion Intensity', color='r')
    plt.xlabel('Frame')
    plt.ylabel('Motion Change')
    plt.title('Motion Detection Over Time')
    plt.legend()
    plt.show()

    # Plot color changes over time
    color_changes = np.array(color_changes)
    plt.figure(figsize=(10, 5))
    plt.plot(color_changes[:, 0], label='Blue', color='b')
    plt.plot(color_changes[:, 1], label='Green', color='g')
    plt.plot(color_changes[:, 2], label='Red', color='r')
    plt.xlabel('Frame')
    plt.ylabel('Average Color Intensity')
    plt.title('Color Intensity Over Time')
    plt.legend()
    plt.show()

# Run low-level feature extraction
extract_low_level_features(video_path)
```
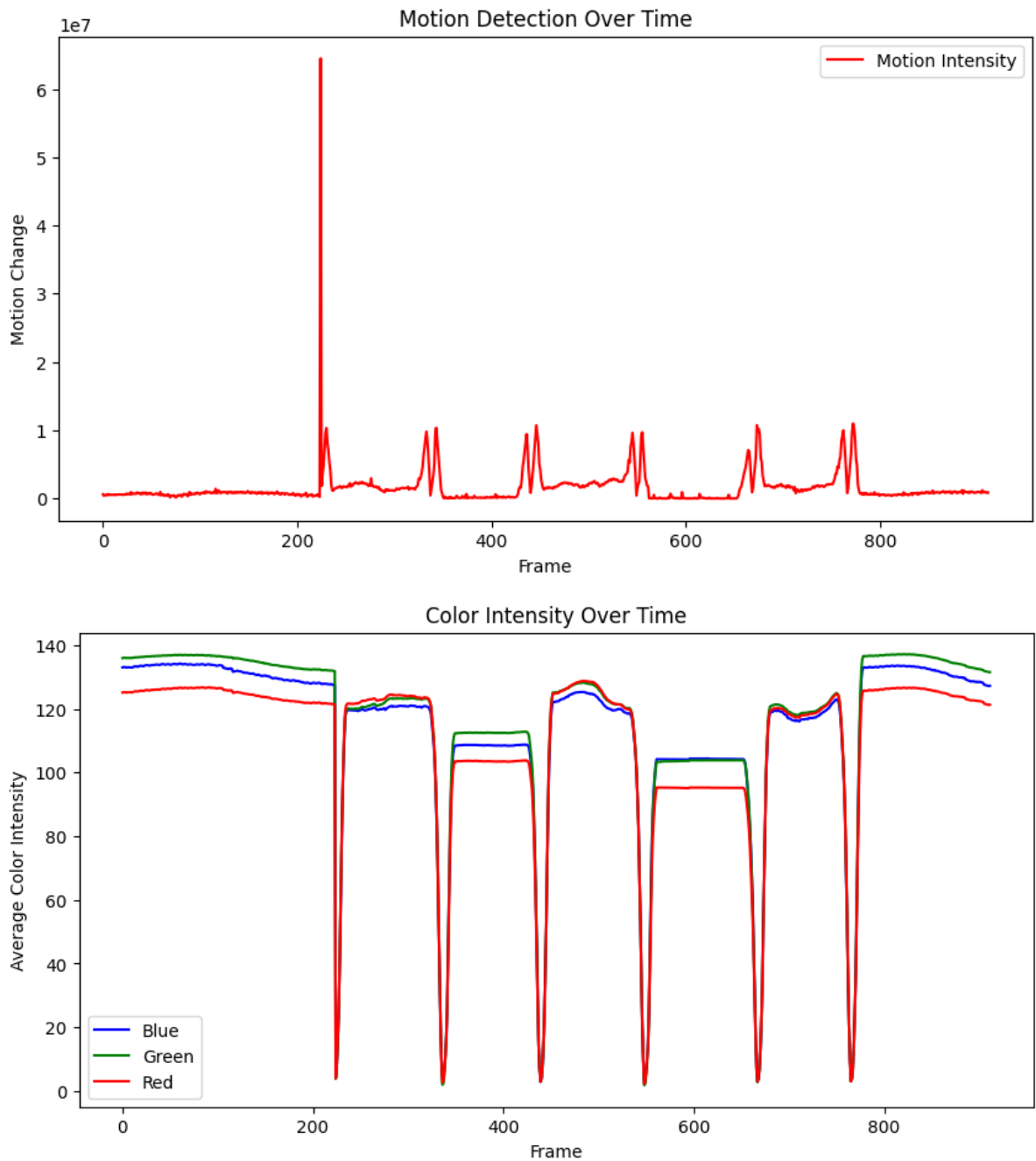
Mid-level features: Shot boundary detection, key frame extraction, object detection

```
In [16]:    # Function to detect shot boundaries
            def detect_shot_boundaries(video_path):
                cap = cv2.VideoCapture(video_path)
                ret, prev_frame = cap.read()
                prev_gray = cv2.cvtColor(prev_frame, cv2.COLOR_BGR2GRAY)
                shot_boundaries = []

                frame_index = 0
                while cap.isOpened():
                    ret, frame = cap.read()
                    if not ret:
                        break

                    gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
                    diff = cv2.absdiff(prev_gray, gray)
```

```python
        score = np.sum(diff)

        if score > 1e7:  # Threshold for shot boundary
            shot_boundaries.append(frame_index)

        prev_gray = gray
        frame_index += 1

    cap.release()
    print("Shot boundaries detected at frames:", shot_boundaries)
    return shot_boundaries

# Run Detect shot boundaries
shot_boundaries = detect_shot_boundaries(video_path)
```

Shot boundaries detected at frames: [224, 230, 343, 446, 673, 674, 675, 77
2, 773]

In [6]:
```python
# Function to extract keyframes based on Structural Similarity Index (SSIM)
def extract_keyframes(video_path, num_frames=5):
    cap = cv2.VideoCapture(video_path)
    success, prev_frame = cap.read()
    prev_frame = tf.image.convert_image_dtype(tf.image.rgb_to_grayscale(prev
    keyframes = [prev_frame.numpy()]

    total_frames = int(cap.get(cv2.CAP_PROP_FRAME_COUNT))
    interval = total_frames // num_frames

    for i in range(1, num_frames):
        cap.set(cv2.CAP_PROP_POS_FRAMES, i * interval)
        success, frame = cap.read()
        if success:
            gray_frame = tf.image.convert_image_dtype(tf.image.rgb_to_graysc
            ssim_score = tf.image.ssim(prev_frame, gray_frame, max_val=1.0)
            if ssim_score < 0.75:  # Change threshold as needed
                keyframes.append(frame)
                prev_frame = gray_frame
    cap.release()
    return keyframes

# Extract and display keyframes
keyframes = extract_keyframes(video_path)
plt.figure(figsize=(15, 5))
for i, frame in enumerate(keyframes):
    plt.subplot(1, len(keyframes), i + 1)
    plt.imshow(cv2.cvtColor(frame, cv2.COLOR_BGR2RGB))
    plt.axis("off")
plt.show()
```

In [ ]:

In [8]:

In [14]:
```python
# Load TensorFlow Object Detection model
detector = load("https://tfhub.dev/tensorflow/ssd_mobilenet_v2/2")

# COCO dataset labels
coco_labels = {
```

```python
    1: "person", 2: "bicycle", 3: "car", 4: "motorcycle", 5: "airplane", 6:
    9: "boat", 10: "traffic light", 11: "fire hydrant", 13: "stop sign", 14
    16: "bird", 17: "cat", 18: "dog", 19: "horse", 20: "sheep", 21: "cow",
    24: "zebra", 25: "giraffe", 27: "backpack", 28: "umbrella", 31: "handba
    34: "frisbee", 35: "skis", 36: "snowboard", 37: "sports ball", 38: "kite
    41: "skateboard", 42: "surfboard", 43: "tennis racket", 44: "bottle", 46
    49: "knife", 50: "spoon", 51: "bowl", 52: "banana", 53: "apple", 54: "sa
    57: "carrot", 58: "hot dog", 59: "pizza", 60: "donut", 61: "cake", 62: "
    65: "bed", 67: "dining table", 70: "toilet", 72: "TV", 73: "laptop", 74
    77: "cell phone", 78: "microwave", 79: "oven", 80: "toaster", 81: "sink"
    85: "clock", 86: "vase", 87: "scissors", 88: "teddy bear", 89: "hair dr
}

# Object detection function with random frame display and object labels
def detect_objects(video_path):
    cap = cv2.VideoCapture(video_path)
    detected_frames = []
    frame_indices = []
    frame_index = 0

    while cap.isOpened():
        ret, frame = cap.read()
        if not ret:
            break

        input_tensor = tf.convert_to_tensor(frame, dtype=tf.uint8)[tf.newaxi
        detections = detector(input_tensor)

        for i in range(len(detections['detection_scores'][0])):
            if detections['detection_scores'][0][i] > 0.5:  # Confidence th
                y1, x1, y2, x2 = detections['detection_boxes'][0][i].numpy()
                h, w, _ = frame.shape
                x1, x2 = int(x1 * w), int(x2 * w)
                y1, y2 = int(y1 * h), int(y2 * h)
                label_index = int(detections['detection_classes'][0][i].num
                label = coco_labels.get(label_index, "unknown")

                cv2.rectangle(frame, (x1, y1), (x2, y2), (0, 255, 0), 2)
                cv2.putText(frame, label, (x1, y1 - 10), cv2.FONT_HERSHEY_S

                # Save frames with detected objects
                detected_frames.append(frame.copy())
                frame_indices.append(frame_index)

        frame_index += 1
        cv2.imshow('Object Detection', frame)
        if cv2.waitKey(1) & 0xFF == ord('q'):
            break

    cap.release()
    cv2.destroyAllWindows()

    # Print a few random frames with detected objects
    if detected_frames:
        selected_indices = random.sample(range(len(detected_frames)), min(5,
        for idx in selected_indices:
            plt.figure(figsize=(5, 5))
            plt.imshow(cv2.cvtColor(detected_frames[idx], cv2.COLOR_BGR2RGB
            plt.axis('off')
            plt.title(f"Detected Object in Frame {frame_indices[idx]}")
            plt.show()

# Run object detection
detect_objects(video_path)
```
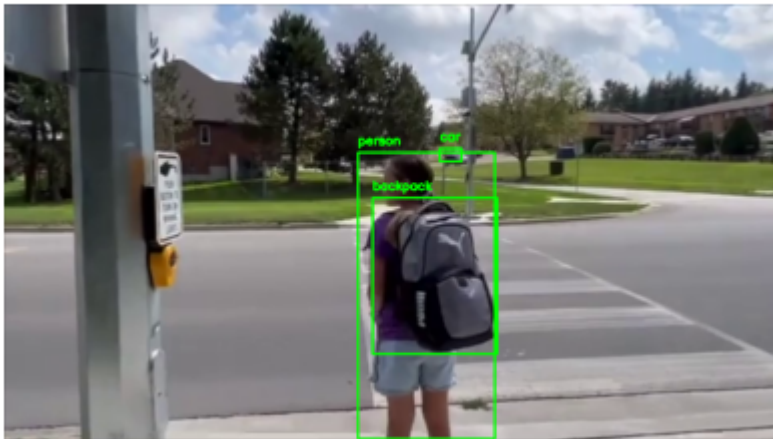
Detected Object in Frame 107

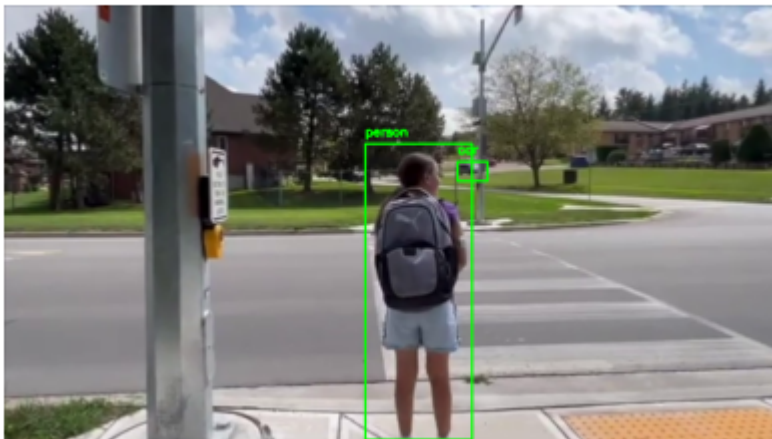## Detected Object in Frame 382

Detected Object in Frame 525

Detected Object in Frame 189

Detected Object in Frame 493

High-level features: Semantic Concepts, Emotional Features, Contextual Features

In [4]:
```python
# High-level feature extraction

# Semantic, Emotional, and Contextual Feature Extraction
sentiment_analysis = pipeline("sentiment-analysis")

# Function to extract Semantic, Emotional, and Contextual Features
def extract_high_level_features(video_path):
    cap = cv2.VideoCapture(video_path)
    frame_index = 0
    semantic_descriptions = []
    emotions = []
    frame_numbers = []

    while cap.isOpened():
        ret, frame = cap.read()
        if not ret:
            break

        # Generate a textual description of the scene (Placeholder for AI-ba
        scene_description = f"Scene at frame {frame_index}: Pedestrian cross
        semantic_descriptions.append(scene_description)

        # Perform sentiment analysis
        emotion_result = sentiment_analysis(scene_description)
        emotions.append(emotion_result[0]['label'])
```

```python
        frame_numbers.append(frame_index)

        print(f"Frame {frame_index} – Semantic: {scene_description}, Emotion

        frame_index += 1

    cap.release()
    print("High-Level Feature Extraction Completed!")

    # Visualizing sentiment analysis results
    plt.figure(figsize=(10, 5))
    sns.countplot(x=emotions, order=['POSITIVE', 'NEGATIVE', 'NEUTRAL'])
    plt.title("Sentiment Analysis of Video Scenes")
    plt.xlabel("Sentiment Type")
    plt.ylabel("Count")
    plt.show()

# Run high-level feature extraction
extract_high_level_features(video_path)
```

```
No model was supplied, defaulted to distilbert/distilbert-base-uncased-fine
tuned-sst-2-english and revision 714eb0f (https://huggingface.co/distilber
t/distilbert-base-uncased-finetuned-sst-2-english).
Using a pipeline without specifying a model name and revision in production
is not recommended.
All PyTorch model weights were used when initializing TFDistilBertForSequen
ceClassification.

All the weights of TFDistilBertForSequenceClassification were initialized f
rom the PyTorch model.
If your task is similar to the task the model of the checkpoint was trained
on, you can already use TFDistilBertForSequenceClassification for predictio
ns without further training.
Device set to use 0
```

Frame 0 – Semantic: Scene at frame 0: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.6774299144744873}]
Frame 1 – Semantic: Scene at frame 1: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8330380320549011}]
Frame 2 – Semantic: Scene at frame 2: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8852750658988953}]
Frame 3 – Semantic: Scene at frame 3: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8616158366203308}]
Frame 4 – Semantic: Scene at frame 4: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8821444511413574}]
Frame 5 – Semantic: Scene at frame 5: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8808038830757141}]
Frame 6 – Semantic: Scene at frame 6: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8813413381576538}]
Frame 7 – Semantic: Scene at frame 7: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7544417977333069}]
Frame 8 – Semantic: Scene at frame 8: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8761898279190063}]
Frame 9 – Semantic: Scene at frame 9: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7933564186096191}]
Frame 10 – Semantic: Scene at frame 10: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7950406074523926}]
Frame 11 – Semantic: Scene at frame 11: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8245363831520081}]
Frame 12 – Semantic: Scene at frame 12: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8161020278930664}]
Frame 13 – Semantic: Scene at frame 13: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8006564974784851}]
Frame 14 – Semantic: Scene at frame 14: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8047283887863159}]
Frame 15 – Semantic: Scene at frame 15: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7901397347450256}]
Frame 16 – Semantic: Scene at frame 16: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8461893200874329}]
Frame 17 – Semantic: Scene at frame 17: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7940457463264465}]
Frame 18 – Semantic: Scene at frame 18: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8517891764640808}]
Frame 19 – Semantic: Scene at frame 19: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7681582570075989}]
Frame 20 – Semantic: Scene at frame 20: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7739162445068359}]
Frame 21 – Semantic: Scene at frame 21: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7444272041320801}]
Frame 22 – Semantic: Scene at frame 22: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7162687182426453}]
Frame 23 – Semantic: Scene at frame 23: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.780378520488739}]
Frame 24 – Semantic: Scene at frame 24: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7404773235321045}]
Frame 25 – Semantic: Scene at frame 25: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.8272138237953186}]
Frame 26 – Semantic: Scene at frame 26: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7852068543434143}]
Frame 27 – Semantic: Scene at frame 27: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.6937488913536072}]
Frame 28 – Semantic: Scene at frame 28: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7486183047294617}]
Frame 29 – Semantic: Scene at frame 29: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7086622714996338}]
Frame 30 – Semantic: Scene at frame 30: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.6102568507194519}]
Frame 31 – Semantic: Scene at frame 31: Pedestrian crossing scenario, Emotion: [{'label': 'POSITIVE', 'score': 0.7430458664894104}]

Frame 32 – Semantic: Scene at frame 32: Pedestrian crossing scenario, Emoti
on: [{'label': 'POSITIVE', 'score': 0.771648108959198}]
Frame 33 – Semantic: Scene at frame 33: Pedestrian crossing scenario, Emoti
on: [{'label': 'POSITIVE', 'score': 0.7831726670265198}]
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Frame 64 – Semantic: Scene at frame 64: Pedestrian crossing scenario, Emoti
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Frame 90 – Semantic: Scene at frame 90: Pedestrian crossing scenario, Emoti
on: [{'label': 'POSITIVE', 'score': 0.859340250492096}]
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High—Level Feature Extraction Completed!
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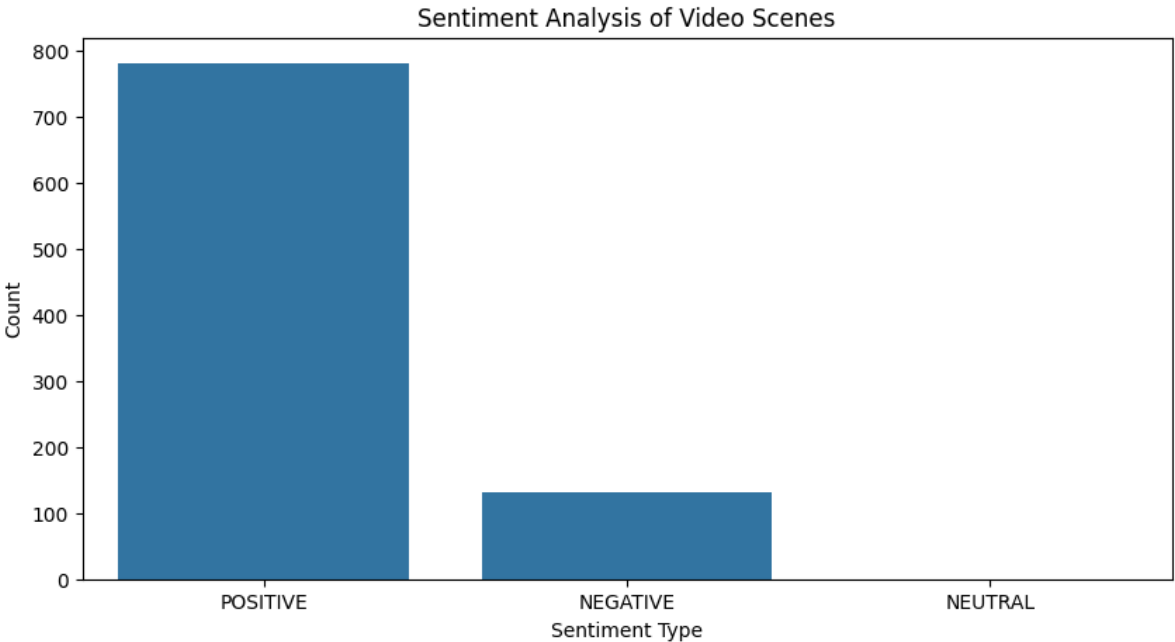

Sentiment Analysis of Video Scenes

Motion Tracking in Video

```
In [5]:  # Motion Tracking in Video
         # Motion Tracking in Video
         def motion_tracking(video_path):
```

```python
    cap = cv2.VideoCapture(video_path)
    ret, prev_frame = cap.read()
    prev_gray = cv2.cvtColor(prev_frame, cv2.COLOR_BGR2GRAY)
    mask = np.zeros_like(prev_frame)
    mask[..., 1] = 255  # Set mask to green for visualization
    motion_intensity = []
    captured_frames = []
    frame_count = 0

    while cap.isOpened():
        ret, frame = cap.read()
        if not ret:
            break

        gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
        flow = cv2.calcOpticalFlowFarneback(prev_gray, gray, None, 0.5, 3, 1

        # Compute motion vectors
        mag, ang = cv2.cartToPolar(flow[..., 0], flow[..., 1])
        mask[..., 0] = ang * 180 / np.pi / 2
        mask[..., 2] = cv2.normalize(mag, None, 0, 255, cv2.NORM_MINMAX)
        motion_intensity.append(np.mean(mag))

        rgb = cv2.cvtColor(mask, cv2.COLOR_HSV2BGR)
        cv2.imshow('Motion Tracking', rgb)

        if len(captured_frames) < 5 and np.mean(mag) > np.percentile(motion_
            captured_frames.append(frame)

        if cv2.waitKey(30) & 0xFF == 27:
            break

        prev_gray = gray

    cap.release()
    cv2.destroyAllWindows()

    # Plot motion intensity over time
    plt.figure(figsize=(10, 5))
    plt.plot(motion_intensity, label='Motion Intensity', color='r')
    plt.xlabel('Frame')
    plt.ylabel('Motion Intensity')
    plt.title('Motion Tracking Over Time')
    plt.legend()
    plt.show()

    # Display captured frames with high motion
    for i, frame in enumerate(captured_frames[:5]):  # Show up to 5 captured
        plt.figure(figsize=(5, 5))
        plt.imshow(cv2.cvtColor(frame, cv2.COLOR_BGR2RGB))
        plt.title(f'Random Captured Frame {i+1}')
        plt.axis('off')
        plt.show()

# Run motion tracking
motion_tracking(video_path)
```
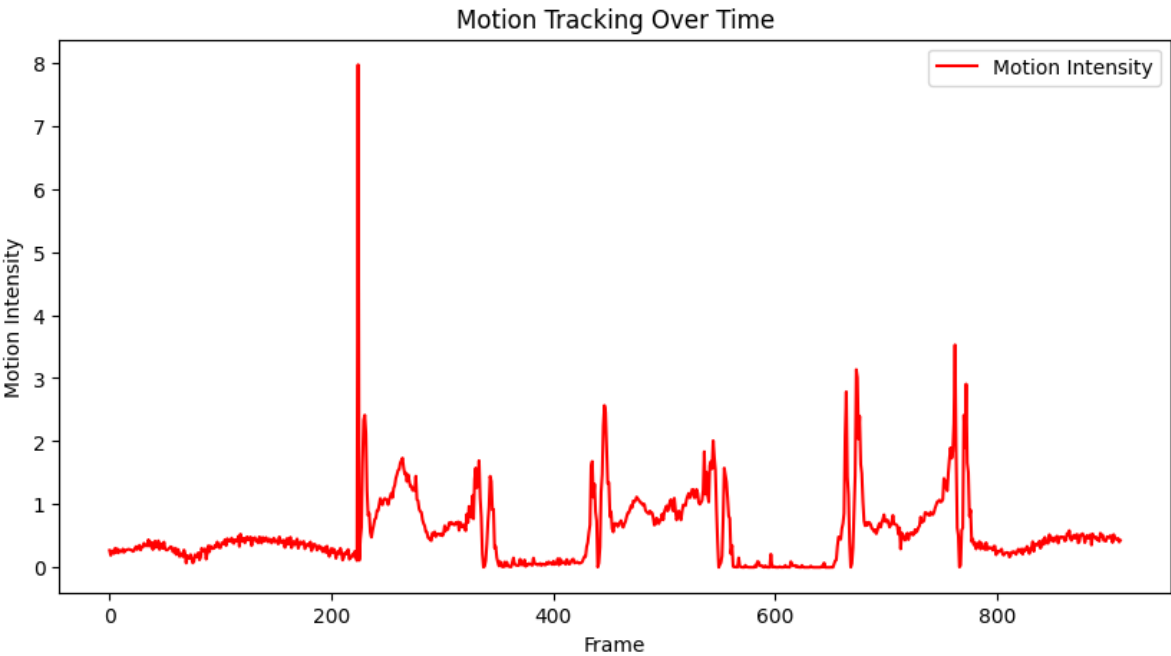
Motion Tracking Over Time

Random Captured Frame 1

Random Captured Frame 2

Random Captured Frame 3

Random Captured Frame 4

Random Captured Frame 5