

```
In [1]: !pip install scikit-learn  
!pip install matplotlib  
!pip install kagglehub
```

```
Defaulting to user installation because normal site-packages is not writeable  
Requirement already satisfied: scikit-learn in ./local/lib/python3.10/site-packages (1.5.2)  
Requirement already satisfied: threadpoolctl>=3.1.0 in ./local/lib/python3.10/site-packages (from scikit-learn) (3.5.0)  
Requirement already satisfied: scipy>=1.6.0 in ./local/lib/python3.10/site-packages (from scikit-learn) (1.14.1)  
Requirement already satisfied: joblib>=1.2.0 in ./local/lib/python3.10/site-packages (from scikit-learn) (1.4.2)  
Requirement already satisfied: numpy>=1.19.5 in /usr/local/lib/python3.10/dist-packages (from scikit-learn) (1.26.4)  
Defaulting to user installation because normal site-packages is not writeable  
Requirement already satisfied: matplotlib in ./local/lib/python3.10/site-packages (3.9.2)  
Requirement already satisfied: cycler>=0.10 in ./local/lib/python3.10/site-packages (from matplotlib) (0.12.1)  
Requirement already satisfied: contourpy>=1.0.1 in ./local/lib/python3.10/site-packages (from matplotlib) (1.3.1)  
Requirement already satisfied: fonttools>=4.22.0 in ./local/lib/python3.10/site-packages (from matplotlib) (4.55.0)  
Requirement already satisfied: pillow>=8 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (10.2.0)  
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (23.2)  
Requirement already satisfied: kiwisolver>=1.3.1 in ./local/lib/python3.10/site-packages (from matplotlib) (1.4.7)  
Requirement already satisfied: numpy>=1.23 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (1.26.4)  
Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.10/dist-packages (from matplotlib) (2.9.0)  
Requirement already satisfied: pyparsing>=2.3.1 in /usr/lib/python3/dist-packages (from matplotlib) (2.4.7)  
Requirement already satisfied: six>=1.5 in /usr/lib/python3/dist-packages (from python-dateutil>=2.7->matplotlib) (1.16.0)  
Defaulting to user installation because normal site-packages is not writeable  
Requirement already satisfied: kagglehub in ./local/lib/python3.10/site-packages (0.3.4)  
Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages (from kagglehub) (4.66.2)  
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from kagglehub) (2.31.0)  
Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from kagglehub) (23.2)  
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/lib/python3/dist-packages (from requests->kagglehub) (1.26.5)  
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->kagglehub) (3.3.2)  
Requirement already satisfied: certifi>=2017.4.17 in /usr/lib/python3/dist-packages (from requests->kagglehub) (2020.6.20)  
Requirement already satisfied: idna<4,>=2.5 in /usr/lib/python3/dist-packages (from requests->kagglehub) (3.3)
```

```
In [11]: import kagglehub  
import shutil #copying files or directories  
import os
```

```

# Download Latest version
path = kagglehub.dataset_download("sadhliroomyprime/cattle-weight-detection-mode

print("Path to dataset files:", path)
# Step 1: Download the dataset

# Step 2: Define the target path in a folder named "data"
target_path = "/data"

# Step 3: Create the "data" folder if it doesn't exist
os.makedirs(target_path, exist_ok=True)

# Step 4: Copy the downloaded dataset to the "data" folder
shutil.copytree(path, target_path, dirs_exist_ok=True)

print(f"Dataset saved to: {target_path}")

```

Path to dataset files: /home/archana/.cache/kagglehub/datasets/sadhliroomyprime/cattle-weight-detection-model-dataset-12k/versions/3

```

-----
PermissionError                                                 Traceback (most recent call last)
Cell In[11], line 15
      12 target_path = "/data"
      13 # Step 3: Create the "data" folder if it doesn't exist
--> 14 os.makedirs(target_path, exist_ok=True)
      15 # Step 4: Copy the downloaded dataset to the "data" folder
      16 shutil.copytree(path, target_path, dirs_exist_ok=True)

File /usr/lib/python3.10/os.py:225, in makedirs(name, mode, exist_ok)
    223         return
    224     try:
--> 225         mkdir(name, mode)
    226     except OSError:
    227         # Cannot rely on checking for EEXIST, since the operating system
    228         # could give priority to other errors like EACCES or EROFS
    229         if not exist_ok or not path.isdir(name):

PermissionError: [Errno 13] Permission denied: '/data'

```

In [12]:

```

import os
import json
import numpy as np
import torch
import torch.nn as nn
import torch.optim as optim
from torch.utils.data import Dataset, DataLoader
from torchvision import transforms, models
from PIL import Image
from sklearn.model_selection import train_test_split
import matplotlib.pyplot as plt

```

In [13]:

```

# Paths for the Side and Rear JSON files and image directories
DATA_PATH = "data/www.acmeai.tech Dataset - BMGF-LivestockWeight-CV"
# JSON_PATH_REAR = os.path.join(DATA_PATH, "Vector/B4/Rear/data/coco_b4_rear.json")
# IMAGE_DIR_REAR = os.path.join(DATA_PATH, "Vector/B4/Rear/data/images")

JSON_PATH_SIDE = os.path.join(DATA_PATH, "Vector/B4/Side/data/coco_b4_side.json")
IMAGE_DIR_SIDE = os.path.join(DATA_PATH, "Vector/B4/Side/data/images")

```

```

# Function to load and display the first image along with its keypoints
def visualize_first_image(json_path, image_dir):
    with open(json_path, 'r') as file:
        coco_data = json.load(file)

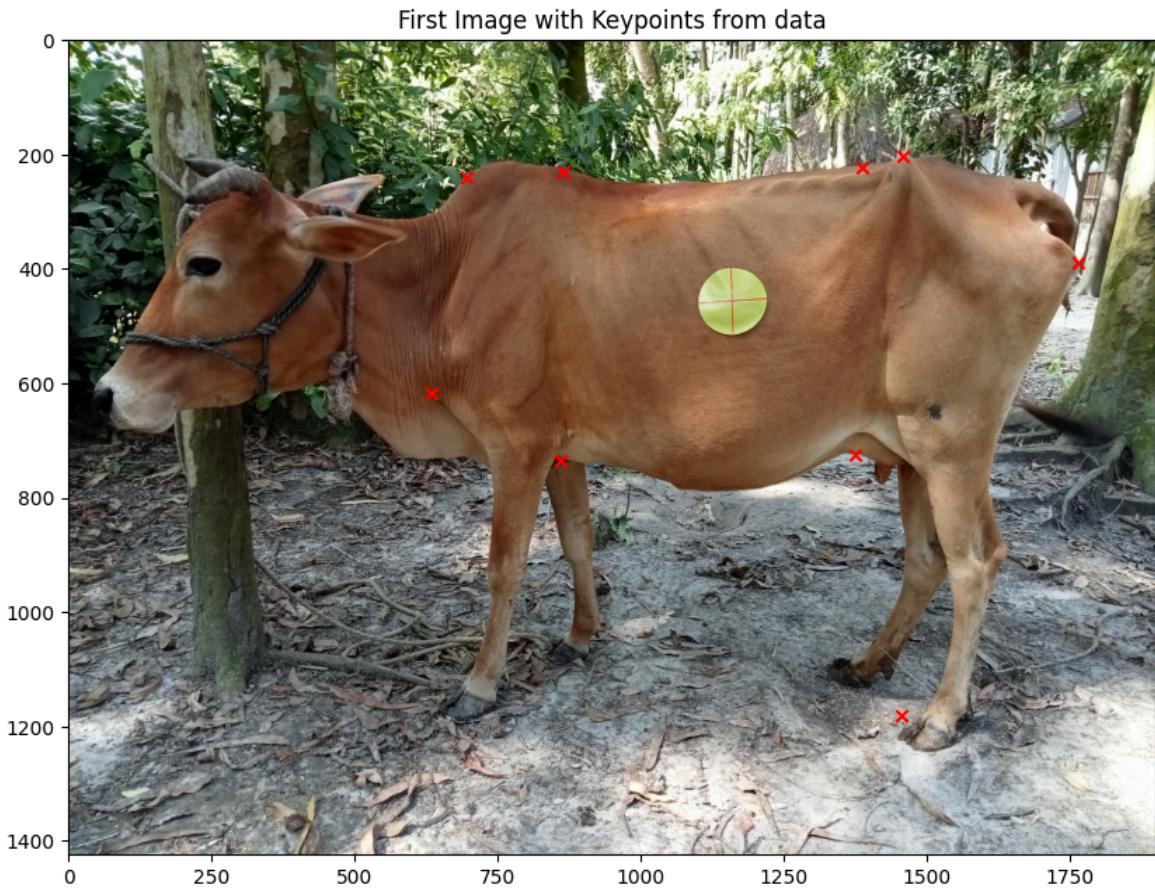
    first_image_filename = coco_data['images'][1]['file_name']
    first_image_keypoints = coco_data['annotations'][1]['keypoints']
    keypoint_x_vals = first_image_keypoints[0::3]
    keypoint_y_vals = first_image_keypoints[1::3]

    image_path = os.path.join(image_dir, first_image_filename)
    image = Image.open(image_path)

    plt.figure(figsize=(10,10))
    plt.imshow(image)
    plt.scatter(keypoint_x_vals, keypoint_y_vals, c='r', marker='x')
    plt.title(f"First Image with Keypoints from {json_path.split('/')[-2]}")
    plt.show()

# Visualize for both Rear and Side
# visualize_first_image(JSON_PATH_REAR, IMAGE_DIR_REAR)
visualize_first_image(JSON_PATH_SIDE, IMAGE_DIR_SIDE)

```



```

In [14]: import os
import torch
from torchvision import transforms
from torch.utils.data import Dataset
from PIL import Image
from torchvision.transforms import functional as TF

class KeypointDataset(Dataset):
    def __init__(self, image_paths, keypoints, root_dir, transform=None):

```

```

"""
Args:
- image_paths (list): List of image file names.
- keypoints (list): List of keypoints for each image.
- root_dir (str): Directory with all the images.
- transform (callable, optional): Optional transform to be applied on an
"""
self.image_paths = image_paths
self.keypoints = keypoints
self.root_dir = root_dir
self.transform = transform

def __len__(self):
    """Return the total number of images."""
    return len(self.image_paths)

def __getitem__(self, idx):
    """Retrieve an image and its keypoints given an index."""
    img_name = os.path.join(self.root_dir, self.image_paths[idx])
    image = Image.open(img_name)

    # Resize the image to a consistent size
    image = TF.resize(image, (224, 224))

    keypoints = self.keypoints[idx]

    # Remove the visibility from keypoints
    keypoints = [keypoints[i] for i in range(len(keypoints)) if i % 3 != 2]
    keypoints = torch.tensor(keypoints, dtype=torch.float32)

    # Apply transformations if provided
    if self.transform:
        image = self.transform(image)

    return image, keypoints

# Define transformations
transform = transforms.Compose([
    transforms.RandomHorizontalFlip(),
    transforms.RandomRotation(15),
    transforms.RandomResizedCrop(224, scale=(0.8, 1.0)),
    transforms.ColorJitter(brightness=0.2, contrast=0.2, saturation=0.2),
    transforms.RandomAffine(degrees=0, translate=(0.1, 0.1)),
    transforms.RandomPerspective(distortion_scale=0.2, p=0.5, interpolation=3),
    transforms.ToTensor()
])

```

In [15]:

```

from torch.utils.data import DataLoader
from torchvision import transforms
import json
from sklearn.model_selection import train_test_split

# Function to split the data and create datasets and dataloaders
def prepare_data(json_path, image_dir, transform):
    with open(json_path, 'r') as file:
        coco_data = json.load(file)

    image_file_names = [img['file_name'] for img in coco_data['images']]
    keypoints_data = [ann['keypoints'] for ann in coco_data['annotations']]

```

```

    train_images, val_images, train_keypoints, val_keypoints = train_test_split(
        image_file_names, keypoints_data, test_size=0.2, random_state=42
    )

    train_dataset = KeypointDataset(train_images, train_keypoints, image_dir, transform)
    val_dataset = KeypointDataset(val_images, val_keypoints, image_dir, transform)
        transforms.Resize((224, 224)),
        transforms.ToTensor(),
        # Add normalization here if necessary
    ]))

    train_loader = DataLoader(train_dataset, batch_size=16, shuffle=True)
    val_loader = DataLoader(val_dataset, batch_size=16, shuffle=False)

    return train_loader, val_loader

# Define transformations for data augmentation
transform = transforms.Compose([
    transforms.RandomHorizontalFlip(),
    transforms.RandomRotation(15),
    transforms.RandomAffine(degrees=10, translate=(0.1, 0.1), scale=(0.8, 1.2)),
    transforms.RandomPerspective(distortion_scale=0.5, p=0.5),
    transforms.ColorJitter(brightness=0.2, contrast=0.2, saturation=0.2),
    transforms.Resize((224, 224)),
    transforms.ToTensor(),
    # Add normalization here if necessary
])
]

# Prepare data for both "Rear" and "Side" views
# train_loader_rear, val_loader_rear = prepare_data(JSON_PATH_REAR, IMAGE_DIR_REAR)
train_loader_side, val_loader_side = prepare_data(JSON_PATH_SIDE, IMAGE_DIR_SIDE)

```

In [16]:

```

from torchvision.models import resnet50 # Changed to ResNet50 for better features
import torch.nn as nn

class KeypointRegressor(nn.Module):
    def __init__(self, num_keypoints, fine_tuning=True, dropout_prob=0.5):
        super(KeypointRegressor, self).__init__()

        # Use ResNet50 for better features
        self.resnet = resnet50(pretrained=True)

        # If fine-tuning, keep the requires_grad attribute as is; otherwise, freeze
        if not fine_tuning:
            for param in self.resnet.parameters():
                param.requires_grad = False

        self.features = nn.Sequential(*list(self.resnet.children())[:-1])

        # Introduce dropout for regularization and batch normalization for better
        self.dropout = nn.Dropout(dropout_prob)
        self.batch_norm = nn.BatchNorm1d(2048) # Updated to 2048 to match ResNet50
        self.regressor = nn.Linear(2048, num_keypoints * 2) # Updated to take into account two views

    def forward(self, x):
        x = self.features(x)
        x = x.view(x.size(0), -1)
        x = self.dropout(x)
        x = self.batch_norm(x)
        return self.regressor(x)

```

```
# Initialize models for both "Rear" and "Side" views
# NUM_KEYPOINTS_REAR = 4
# model_rear = KeypointRegressor(num_keypoints=NUM_KEYPOINTS_REAR)
NUM_KEYPOINTS_SIDE = 9
model_side = KeypointRegressor(num_keypoints=NUM_KEYPOINTS_SIDE)
```

```
/usr/local/lib/python3.10/dist-packages/torchvision/models/_utils.py:208: UserWarning: The parameter 'pretrained' is deprecated since 0.13 and may be removed in the future, please use 'weights' instead.
    warnings.warn(
/usr/local/lib/python3.10/dist-packages/torchvision/models/_utils.py:223: UserWarning: Arguments other than a weight enum or `None` for 'weights' are deprecated since 0.13 and may be removed in the future. The current behavior is equivalent to passing `weights=ResNet50_Weights.IMAGENET1K_V1`. You can also use `weights=ResNet50_Weights.DEFAULT` to get the most up-to-date weights.
    warnings.warn(msg)
```

In [17]:

```
import torch.optim as optim

# Using Smooth L1 Loss which can be more robust against outliers
criterion = nn.SmoothL1Loss()

# Introducing weight decay for regularization
# optimizer_rear = optim.Adam(model_rear.parameters(), lr=0.0001, weight_decay=1
optimizer_side = optim.Adam(model_side.parameters(), lr=0.0001, weight_decay=1e-5

# Learning rate scheduler to reduce LR when validation loss plateaus
# scheduler_rear = optim.lr_scheduler.ReduceLROnPlateau(optimizer_rear, 'min', p
scheduler_side = optim.lr_scheduler.ReduceLROnPlateau(optimizer_side, 'min', pat
```

In [18]:

```
from tqdm.notebook import tqdm

def train_model(model, train_dataloader, val_dataloader, optimizer, scheduler, c
best_loss = float('inf')

for epoch in range(num_epochs):
    print(f"Epoch {epoch + 1}/{num_epochs}")
    print('-' * 10)

    # Each epoch has a training and validation phase
    for phase in ['train', 'val']:
        if phase == 'train':
            model.train() # Set model to training mode
            dataloader = train_dataloader
        else:
            model.eval() # Set model to evaluate mode
            dataloader = val_dataloader

        running_loss = 0.0

        # Add progress bar using tqdm
        for images, keypoints in tqdm(dataloader, desc=f"{phase} phase", lea
            # Zero the parameter gradients
            optimizer.zero_grad()

            # Forward pass
            with torch.set_grad_enabled(phase == 'train'): # Only track his
                outputs = model(images)
                loss = criterion(outputs, keypoints)
```

```

        # Backward pass and optimize only in training phase
        if phase == 'train':
            loss.backward()
            optimizer.step()

            running_loss += loss.item() * images.size(0)

        epoch_loss = running_loss / len(dataloader.dataset)

        # Update Learning rate using scheduler in train phase and print data
        if phase == 'train':
            scheduler.step(epoch_loss)
            print(f"\nTrain Loss: {epoch_loss:.4f} - Learning Rate: {optimizer.state['lr']:.6f}")
        else:
            print(f"\nVal Loss: {epoch_loss:.4f}")
            # Save the model if it's the best one seen so far
            if epoch_loss < best_loss:
                best_loss = epoch_loss
                torch.save(model.state_dict(), save_path)
            print()

        print(f"Best Val Loss: {best_loss:.4f}")
    return model

```

```

In [25]: # Learning rate schedulers for both models
# scheduler_rear = optim.lr_scheduler.ReduceLROnPlateau(optimizer_rear, 'min', patience=10)
scheduler_side = optim.lr_scheduler.ReduceLROnPlateau(optimizer_side, 'min', patience=10)

# Train the rear model
# print("Training Rear Model...")
# model_rear = train_model(model_rear, train_loader_rear, val_loader_rear, optimizer_rear)

# Train the side model
print("\nTraining Side Model...")
model_side = train_model(model_side, train_loader_side, val_loader_side, optimizer_side)

```

Training Side Model...

Epoch 1/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
 Train Loss: 787.5786 - Learning Rate: 1.0000e-04
 val phase: 0% | 0/25 [00:00<?, ?it/s]
 Val Loss: 793.4249

Epoch 2/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
 Train Loss: 786.6430 - Learning Rate: 1.0000e-04
 val phase: 0% | 0/25 [00:00<?, ?it/s]
 Val Loss: 791.6670

Epoch 3/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
 Train Loss: 784.6148 - Learning Rate: 1.0000e-04
 val phase: 0% | 0/25 [00:00<?, ?it/s]

Val Loss: 789.1070

Epoch 4/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 781.5053 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 782.8248

Epoch 5/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 777.3657 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 790.1951

Epoch 6/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 772.2363 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 768.7997

Epoch 7/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 766.1623 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 781.4430

Epoch 8/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 759.1629 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 759.3485

Epoch 9/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 751.2865 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 738.4093

Epoch 10/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 742.5719 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 743.5938

Epoch 11/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 733.0155 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 772.0577

Epoch 12/50

```
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 722.6516 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 727.4415
```

Epoch 13/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 711.5363 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 720.9915
```

Epoch 14/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 699.6834 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 701.0217
```

Epoch 15/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 687.1057 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 690.1078
```

Epoch 16/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 673.8790 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 667.1773
```

Epoch 17/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 660.0241 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 681.3539
```

Epoch 18/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 645.6320 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 679.2872
```

Epoch 19/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 630.7032 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 613.9161
```

Epoch 20/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 615.2769 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
```

Val Loss: 582.3564

Epoch 21/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 599.6416 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 594.0038

Epoch 22/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 583.8062 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 579.6902

Epoch 23/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 567.8424 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 548.1460

Epoch 24/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 551.8667 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 530.5104

Epoch 25/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 536.2082 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 515.4665

Epoch 26/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 520.4681 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 457.8231

Epoch 27/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 505.8877 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 467.6272

Epoch 28/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 491.3514 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 454.3358

Epoch 29/50

```
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 477.2431 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 430.5658
```

Epoch 30/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 463.3355 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 434.7542
```

Epoch 31/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 449.1500 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 414.8956
```

Epoch 32/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 435.3767 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 403.6564
```

Epoch 33/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 422.0041 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 381.0212
```

Epoch 34/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 408.1248 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 376.2493
```

Epoch 35/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 394.6955 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 354.8691
```

Epoch 36/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 381.1507 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 348.4122
```

Epoch 37/50

```
-----  
train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 367.6717 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
```

Val Loss: 333.5823

Epoch 38/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 354.5410 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 325.1609

Epoch 39/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 341.6624 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 311.9270

Epoch 40/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 328.3800 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 305.5795

Epoch 41/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 316.3612 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 302.6242

Epoch 42/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 304.8211 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 282.7371

Epoch 43/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 294.5157 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 285.7129

Epoch 44/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 284.7600 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 269.0012

Epoch 45/50

train phase: 0% | 0/98 [00:00<?, ?it/s]
Train Loss: 275.7214 - Learning Rate: 1.0000e-04
val phase: 0% | 0/25 [00:00<?, ?it/s]
Val Loss: 258.5189

Epoch 46/50

```

train phase:  0% | 0/98 [00:00<?, ?it/s]
Train Loss: 267.8406 - Learning Rate: 1.0000e-04
val phase:  0% | 0/25 [00:00<?, ?it/s]
Val Loss: 258.1949

Epoch 47/50
-----
train phase:  0% | 0/98 [00:00<?, ?it/s]
Train Loss: 260.8028 - Learning Rate: 1.0000e-04
val phase:  0% | 0/25 [00:00<?, ?it/s]
Val Loss: 250.6935

Epoch 48/50
-----
train phase:  0% | 0/98 [00:00<?, ?it/s]
Train Loss: 254.7698 - Learning Rate: 1.0000e-04
val phase:  0% | 0/25 [00:00<?, ?it/s]
Val Loss: 248.6006

Epoch 49/50
-----
train phase:  0% | 0/98 [00:00<?, ?it/s]
Train Loss: 248.6147 - Learning Rate: 1.0000e-04
val phase:  0% | 0/25 [00:00<?, ?it/s]
Val Loss: 240.9688

Epoch 50/50
-----
train phase:  0% | 0/98 [00:00<?, ?it/s]
Train Loss: 243.7941 - Learning Rate: 1.0000e-04
val phase:  0% | 0/25 [00:00<?, ?it/s]
Val Loss: 234.6337

Best Val Loss: 234.6337

```

```
In [27]: # Save the trained side model
model_save_path = 'side_model.pth' # You can specify your desired file name
torch.save(model_side, model_save_path)

print(f"Side model saved to {model_save_path}")

```

Side model saved to side_model.pth

```
In [28]: def evaluate_model(model, dataloader, criterion, visualize=False, num_samples_to_evaluate=100):
    model.eval() # Set model to evaluation mode
    running_loss = 0.0
    all_predictions = []
    all_keypoints = []
    # For visualization
    sample_images = []
    sample_true_keypoints = []
    sample_pred_keypoints = []

    with torch.no_grad():
        for images, keypoints in tqdm(dataloader, desc="Evaluating", unit="batch"):
            outputs = model(images)
            loss = criterion(outputs, keypoints)
            running_loss += loss.item() * images.size(0)
            all_predictions.extend(outputs.cpu().numpy())
            all_keypoints.extend(keypoints.cpu().numpy())

```

```

# Visualization samples
if visualize and len(sample_images) < num_samples_to_visualize:
    sample_images.extend(images.cpu().numpy())
    sample_true_keypoints.extend(keypoints.cpu().numpy())
    sample_pred_keypoints.extend(outputs.cpu().numpy())

average_loss = running_loss / len(dataloader.dataset)

# Calculate additional metrics
mae = mean_absolute_error(all_keypoints, all_predictions)
r2 = r2_score(all_keypoints, all_predictions)

# Visualization
if visualize:
    for i in range(min(num_samples_to_visualize, len(sample_images))):
        plt.figure(figsize=(10, 5))
        image = np.transpose(sample_images[i], (1, 2, 0))
        true_keypoints = np.array(sample_true_keypoints[i]).reshape(-1, 2)
        pred_keypoints = np.array(sample_pred_keypoints[i]).reshape(-1, 2)
        plt.imshow(image)
        plt.scatter(true_keypoints[:, 0], true_keypoints[:, 1], color='g', m
        plt.scatter(pred_keypoints[:, 0], pred_keypoints[:, 1], color='r', m
# Calculate and draw distances
for j, (tx, ty) in enumerate(true_keypoints):
    for k, (px, py) in enumerate(pred_keypoints):
        if j != k:
            distance = np.linalg.norm(np.array([tx, ty]) - np.array(
                mid_point = ((tx + px) // 2, (ty + py) // 2)
                plt.plot([tx, px], [ty, py], 'k-', linewidth=1)
                plt.text(mid_point[0], mid_point[1], f"{{distance:.1f}}",
            plt.legend()
            plt.show()

return average_loss, mae, r2

```

In [29]:

```

from sklearn.metrics import mean_absolute_error, r2_score

def evaluate_model(model, dataloader, criterion):
    model.eval() # Set model to evaluation mode
    running_loss = 0.0
    all_predictions = []
    all_keypoints = []

    with torch.no_grad():
        for images, keypoints in dataloader:
            outputs = model(images)
            loss = criterion(outputs, keypoints)
            running_loss += loss.item() * images.size(0)

            all_predictions.extend(outputs.cpu().numpy())
            all_keypoints.extend(keypoints.cpu().numpy())

    average_loss = running_loss / len(dataloader.dataset)

    # Calculate additional metrics
    mae = mean_absolute_error(all_keypoints, all_predictions)
    r2 = r2_score(all_keypoints, all_predictions)

    return average_loss, mae, r2

```

```

# Evaluate rear model
# val_loss_rear, mae_rear, r2_rear = evaluate_model(model_rear, val_loader_rear,
# print(f"Validation Loss (Rear): {val_loss_rear:.4f}")
# print(f"Mean Absolute Error (Rear): {mae_rear:.4f}")
# print(f"R^2 Score (Rear): {r2_rear:.4f}\n")

# Evaluate side model
val_loss_side, mae_side, r2_side = evaluate_model(model_side, val_loader_side, c
print(f"Validation Loss (Side): {val_loss_side:.4f}")
print(f"Mean Absolute Error (Side): {mae_side:.4f}")
print(f"R^2 Score (Side): {r2_side:.4f}")

```

Validation Loss (Side): 234.6337
 Mean Absolute Error (Side): 235.1326
 R^2 Score (Side): -2.3801

In [30]:

```

import numpy as np
import matplotlib.pyplot as plt
from tqdm.notebook import tqdm

def evaluate_model(model, dataloader, criterion, visualize=False, num_samples_to_
    model.eval() # Set model to evaluation mode
    running_loss = 0.0
    all_predictions = []
    all_keypoints = []

    # For visualization
    sample_images = []
    sample_true_keypoints = []
    sample_pred_keypoints = []

    with torch.no_grad():
        for images, keypoints in tqdm(dataloader, desc="Evaluating", unit="batch"):
            outputs = model(images)
            loss = criterion(outputs, keypoints)
            running_loss += loss.item() * images.size(0)

            all_predictions.extend(outputs.cpu().numpy())
            all_keypoints.extend(keypoints.cpu().numpy())

    # Visualization samples
    if visualize and len(sample_images) < num_samples_to_visualize:
        sample_images.extend(images.cpu().numpy())
        sample_true_keypoints.extend(keypoints.cpu().numpy())
        sample_pred_keypoints.extend(outputs.cpu().numpy())

    average_loss = running_loss / len(dataloader.dataset)

    # Calculate additional metrics
    mae = mean_absolute_error(all_keypoints, all_predictions)
    r2 = r2_score(all_keypoints, all_predictions)

    # Visualization
    if visualize:
        for i in range(min(num_samples_to_visualize, len(sample_images))):
            plt.figure(figsize=(10, 5))
            plt.imshow(np.transpose(sample_images[i], (1, 2, 0)))
            true_keypoints = np.array(sample_true_keypoints[i]).reshape(-1, 2)
            pred_keypoints = np.array(sample_pred_keypoints[i]).reshape(-1, 2)
            plt.scatter(true_keypoints[:, 0], true_keypoints[:, 1], color='g', m

```

```

        plt.scatter(pred_keypoints[:, 0], pred_keypoints[:, 1], color='r', m
        plt.legend()
        plt.show()

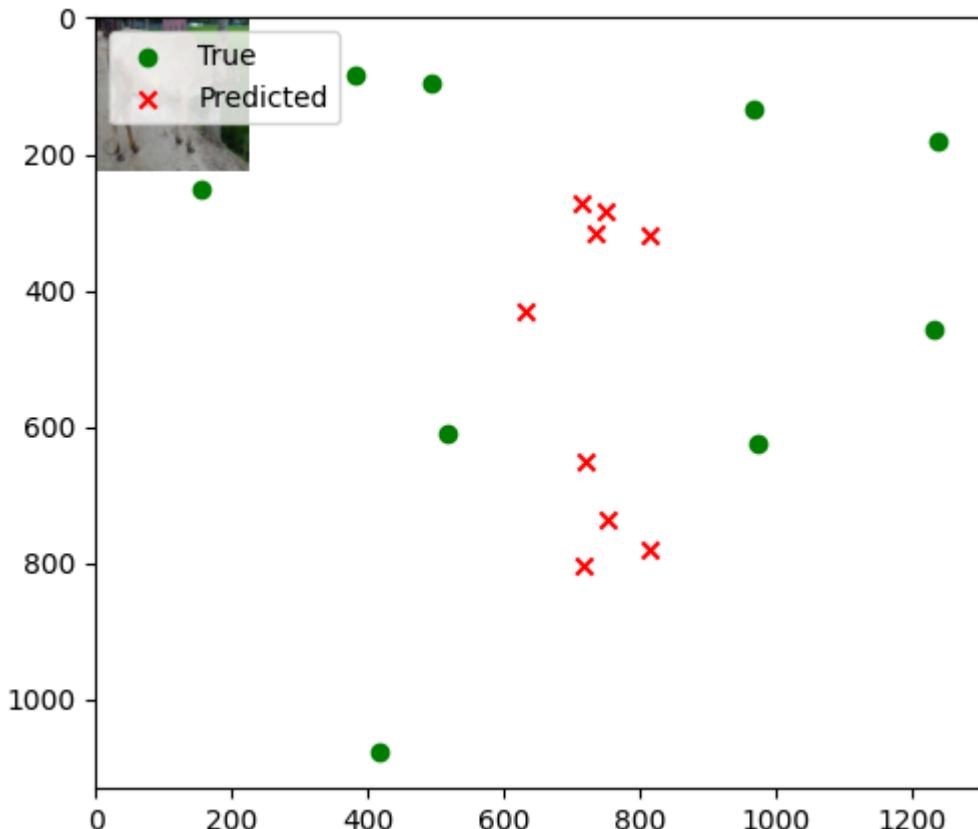
    return average_loss, mae, r2

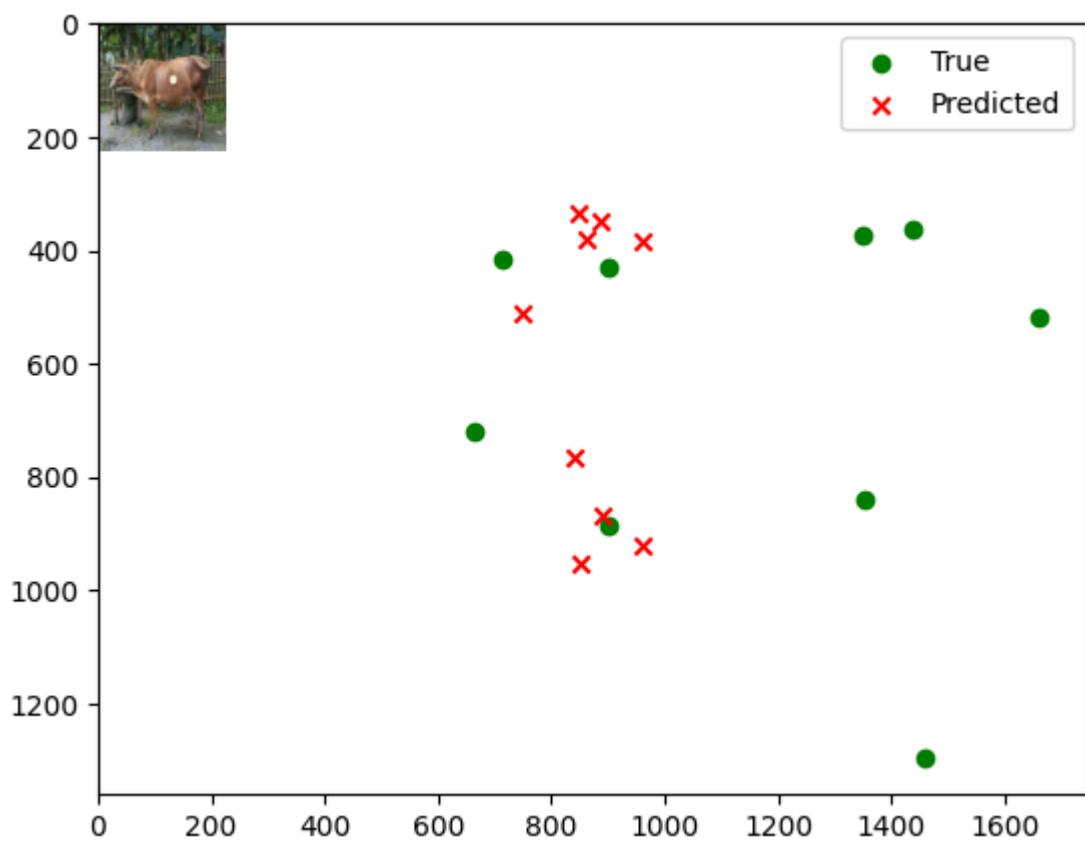
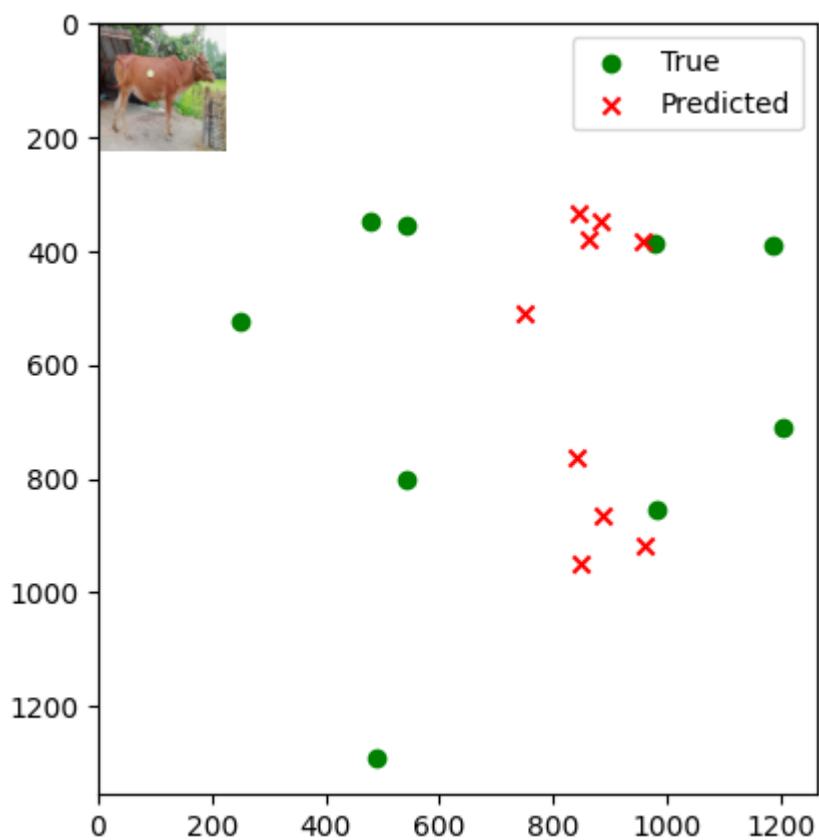
# Evaluate rear model
# val_loss_rear, mae_rear, r2_rear = evaluate_model(model_rear, val_loader_rear,
# print(f"Validation Loss (Rear): {val_loss_rear:.4f}")
# print(f"Mean Absolute Error (Rear): {mae_rear:.4f}")
# print(f"R^2 Score (Rear): {r2_rear:.4f}\n")

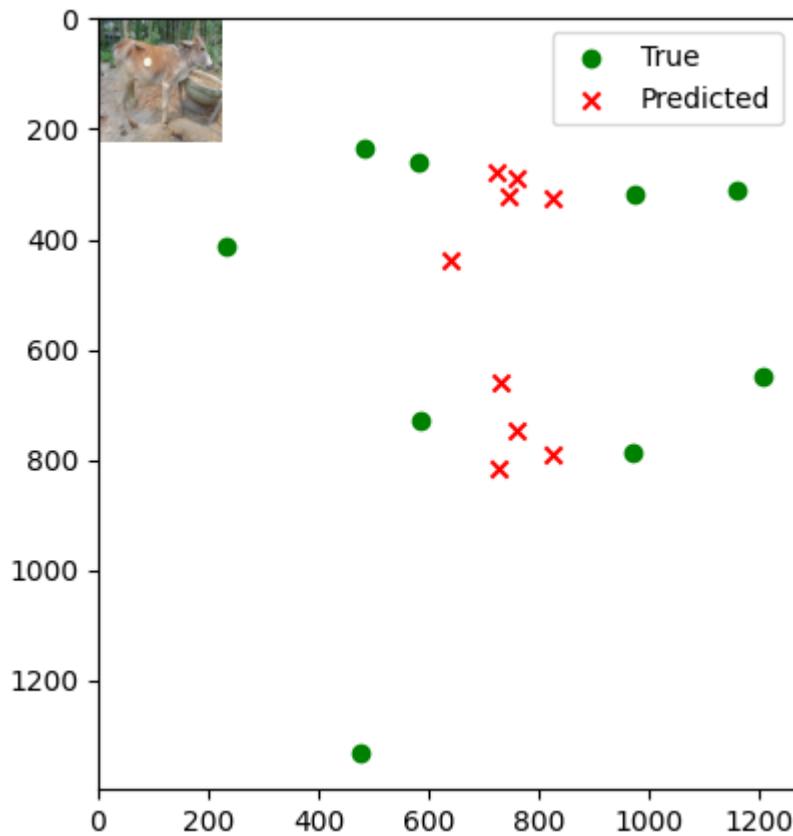
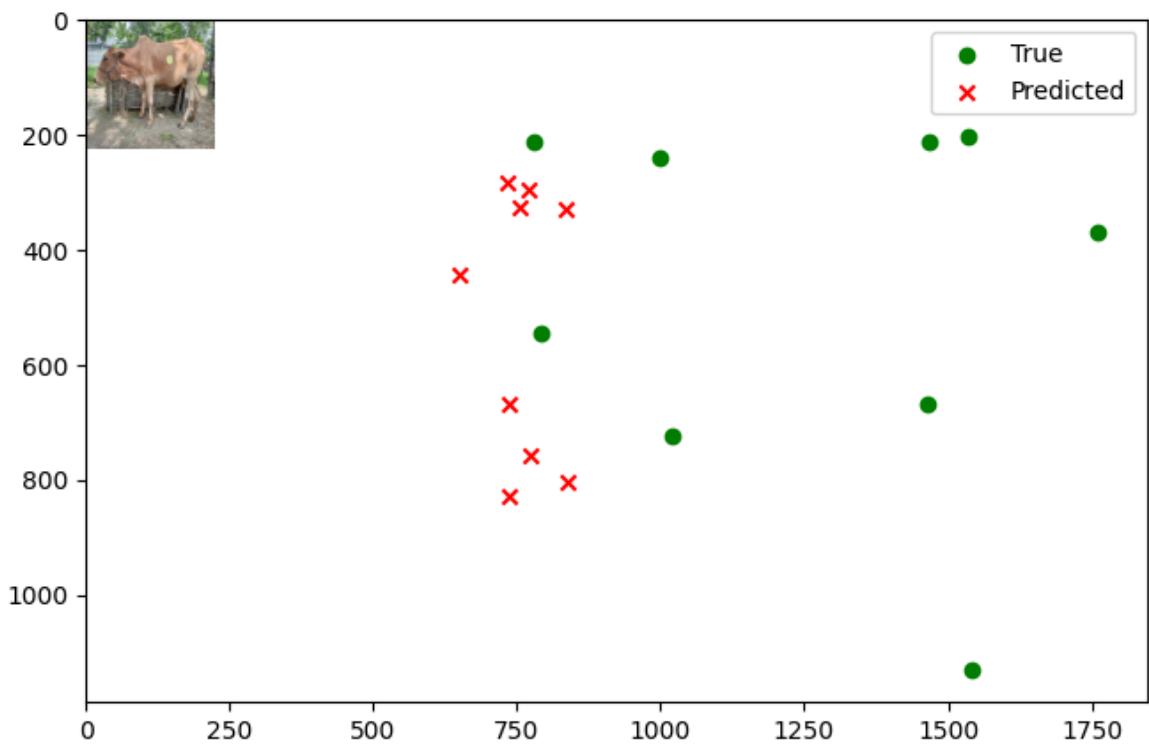
# Evaluate side model
val_loss_side, mae_side, r2_side = evaluate_model(model_side, val_loader_side, c
print(f"Validation Loss (Side): {val_loss_side:.4f}")
print(f"Mean Absolute Error (Side): {mae_side:.4f}")
print(f"R^2 Score (Side): {r2_side:.4f}")

```

Evaluating: 0% | 0/25 [00:00<?, ?batch/s]







```
Validation Loss (Side): 234.6337
Mean Absolute Error (Side): 235.1326
R^2 Score (Side): -2.3801
```

```
In [31]: import numpy as np
import matplotlib.pyplot as plt
from tqdm.notebook import tqdm
from sklearn.metrics import mean_absolute_error, r2_score

def evaluate_model(model, dataloader, criterion, visualize=False, num_samples_to
```

```

running_loss = 0.0
all_predictions = []
all_keypoints = []

# For visualization
sample_images = []
sample_true_keypoints = []
sample_pred_keypoints = []

with torch.no_grad():
    for images, keypoints in tqdm(dataloader, desc="Evaluating", unit="batch"):
        outputs = model(images)
        loss = criterion(outputs, keypoints)
        running_loss += loss.item() * images.size(0)

        all_predictions.extend(outputs.cpu().numpy())
        all_keypoints.extend(keypoints.cpu().numpy())

    # Store predicted keypoints for each batch
    for pred_keypoint in outputs.cpu().numpy():
        sample_pred_keypoints.append(pred_keypoint)

# Visualization samples
if visualize:
    sample_images.extend(images.cpu().numpy())
    sample_true_keypoints.extend(keypoints.cpu().numpy())

average_loss = running_loss / len(dataloader.dataset)

# Calculate additional metrics
mae = mean_absolute_error(all_keypoints, all_predictions)
r2 = r2_score(all_keypoints, all_predictions)

# Visualization
if visualize:
    plt.figure(figsize=(10, 5))
    for i in range(len(sample_images)):
        print("Image number:", i)
        print("True keypoints:", sample_true_keypoints[i])
        true_keypoints = np.array(sample_true_keypoints[i]).reshape(-1, 2)
        print("True keypoints:", sample_true_keypoints[i])
        print("Length of true keypoints:", len(true_keypoints))
        pred_keypoints = np.array(sample_pred_keypoints[i]).reshape(-1, 2)
        print("Length of predicted keypoints:", len(pred_keypoints))
        print("Predicted keypoints:", pred_keypoints)
        plt.imshow(np.transpose(sample_images[i], (1, 2, 0)))
        plt.scatter(true_keypoints[:, 0], true_keypoints[:, 1], color='g', m
        plt.scatter(pred_keypoints[:, 0], pred_keypoints[:, 1], color='r', m
        plt.legend()
        plt.show()

return average_loss, mae, r2

# Assuming the model, dataloaders, and criterion are defined elsewhere in your c

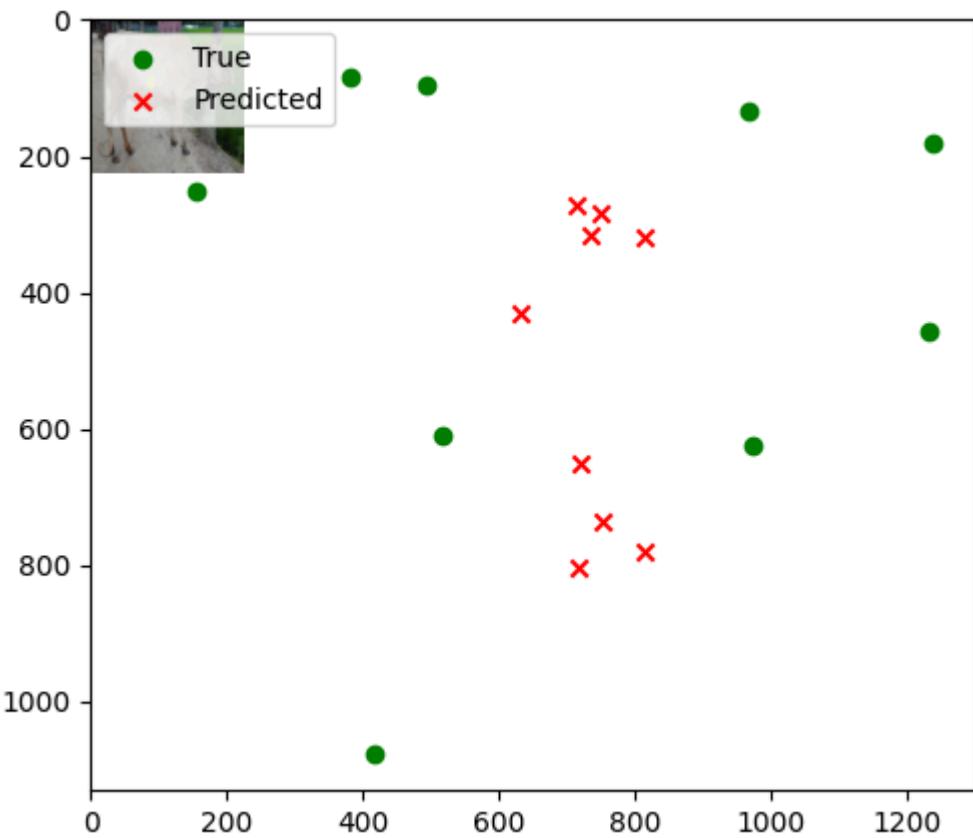
# Evaluate side model
val_loss_side, mae_side, r2_side = evaluate_model(model_side, val_loader_side, c
print(f"Validation Loss (Side): {val_loss_side:.4f}")
print(f"Mean Absolute Error (Side): {mae_side:.4f}")
print(f"R^2 Score (Side): {r2_side:.4f}")

```

```

Evaluating:  0% | 0/25 [00:00<?, ?batch/s]
Image number: 0
True keypoints: [1237. 180. 155. 251. 1231. 456. 967. 135. 974. 625. 49
3. 96.
516. 611. 383. 84. 416. 1077.]
Length of true keypoints: 9
Length of predicted keypoints: 9
Predicted keypoints: [[735.61017 315.66037]
[631.9148 430.247 ]
[718.98413 649.919 ]
[813.32166 317.97867]
[814.297 780.5051 ]
[748.48804 284.3914 ]
[751.5213 736.6208 ]
[712.79675 272.16928]
[717.4644 804.8053 ]]

```



```

Image number: 1
True keypoints: [1187. 388. 250. 523. 1204. 711. 979. 387. 981. 854. 54
3. 355.
542. 802. 480. 347. 491. 1291.]
Length of true keypoints: 9
Length of predicted keypoints: 9
Predicted keypoints: [[861.78314 378.28683]
[748.9366 508.05432]
[841.27515 762.1851 ]
[959.1408 380.79956]
[960.23376 918.124 ]
[885.0261 346.30908]
[888.7079 866.0192 ]
[844.3697 333.50043]
[848.8673 948.99774]]

```

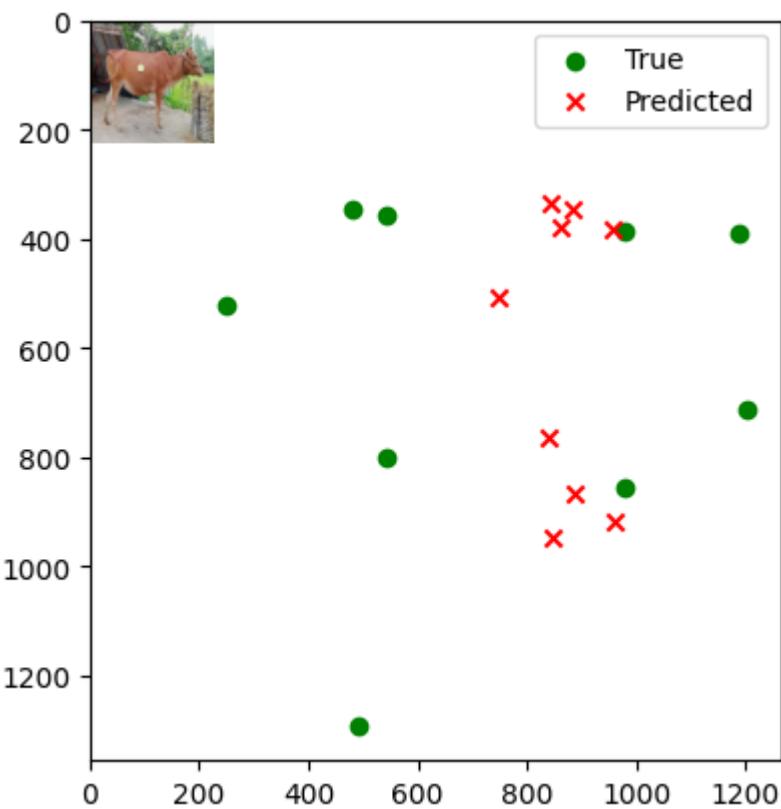


Image number: 2

True keypoints: [713. 414. 1661. 519. 664. 719. 901. 428. 901. 887. 134
8. 372.

1355. 841. 1439. 361. 1459. 1295.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[863.1177 379.81564]

[750.5375 509.32706]

[842.5099 763.5176]

[961.1338 382.2433]

[962.3153 919.88654]

[886.99286 348.14746]

[890.73254 867.63916]

[846.33417 335.42334]

[850.6934 950.9296]]

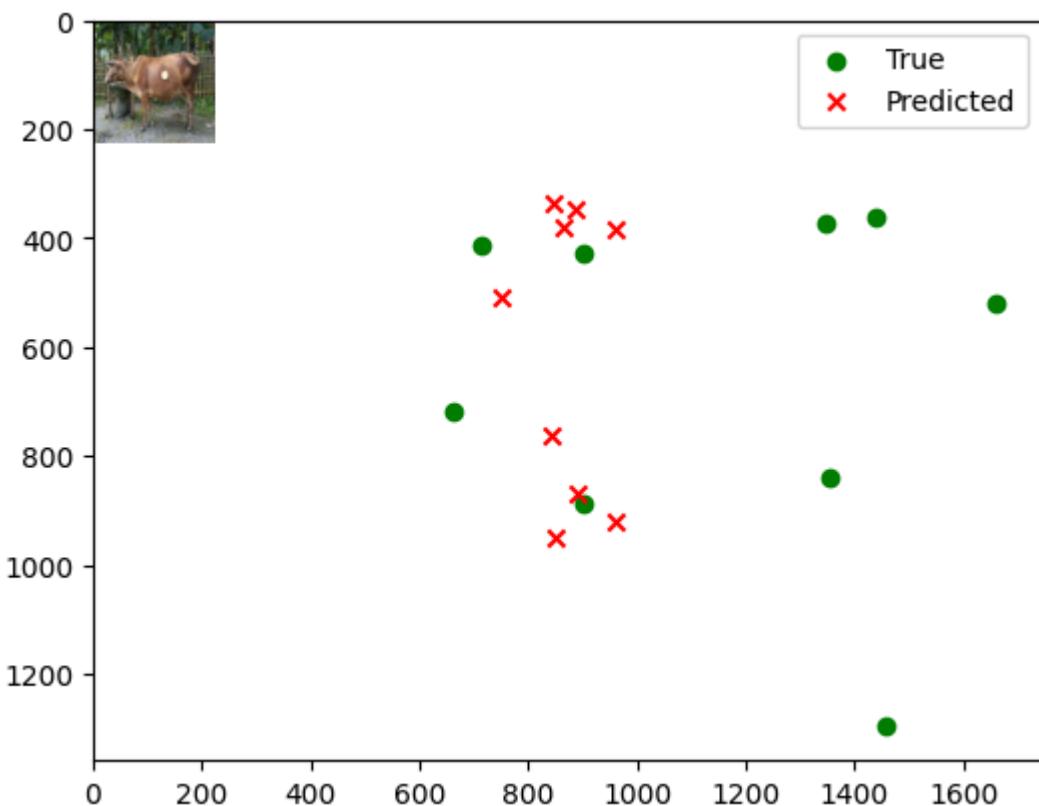


Image number: 3

True keypoints: [780. 210. 1760. 369. 791. 544. 998. 240. 1020. 723. 146. 8. 210.

1464. 669. 1536. 202. 1541. 1130.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[755.0938 325.74774]

[650.60205 442.46857]

[737.77637 667.2167]

[836.2193 328.09467]

[837.38293 802.05115]

[770.2199 294.78912]

[773.3476 756.70154]

[733.8523 282.54135]

[738.3611 827.4402]]

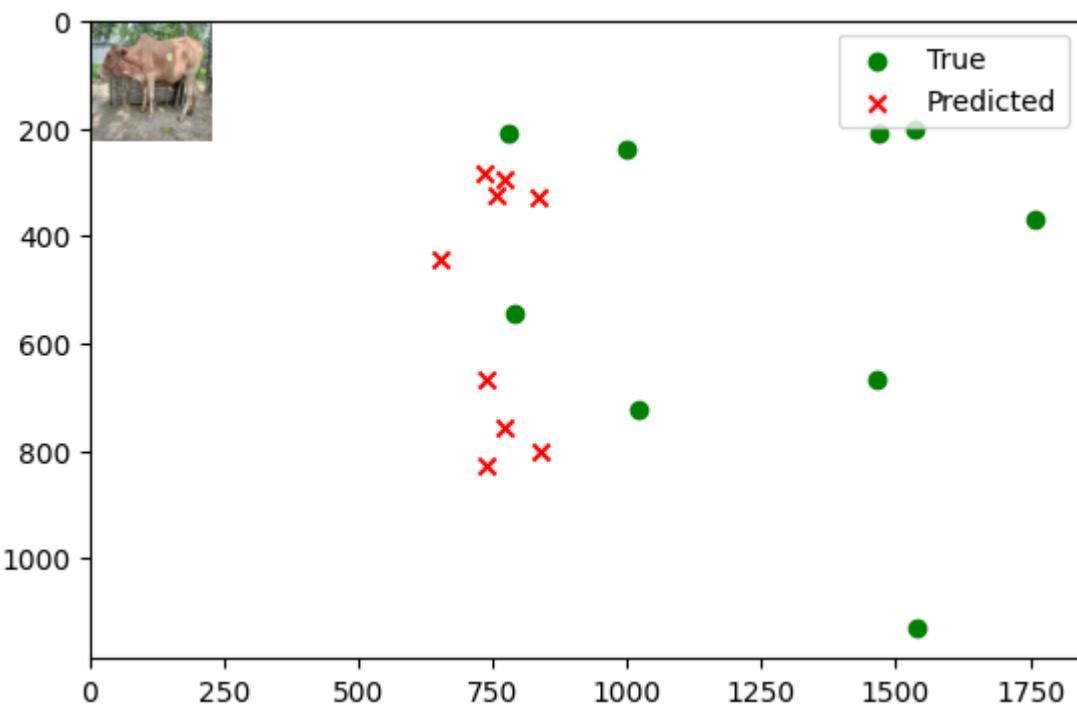


Image number: 4

True keypoints: [1160. 310. 234. 411. 1207. 649. 972. 317. 969. 786. 58
2. 261.

584. 729. 482. 236. 476. 1331.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[745.0094 322.1941]

[638.10443 437.05838]

[728.30035 659.2553]

[823.8263 323.9511]

[824.98505 790.59753]

[757.4995 290.43875]

[760.74396 746.66223]

[721.023 278.16608]

[725.5033 814.993]]

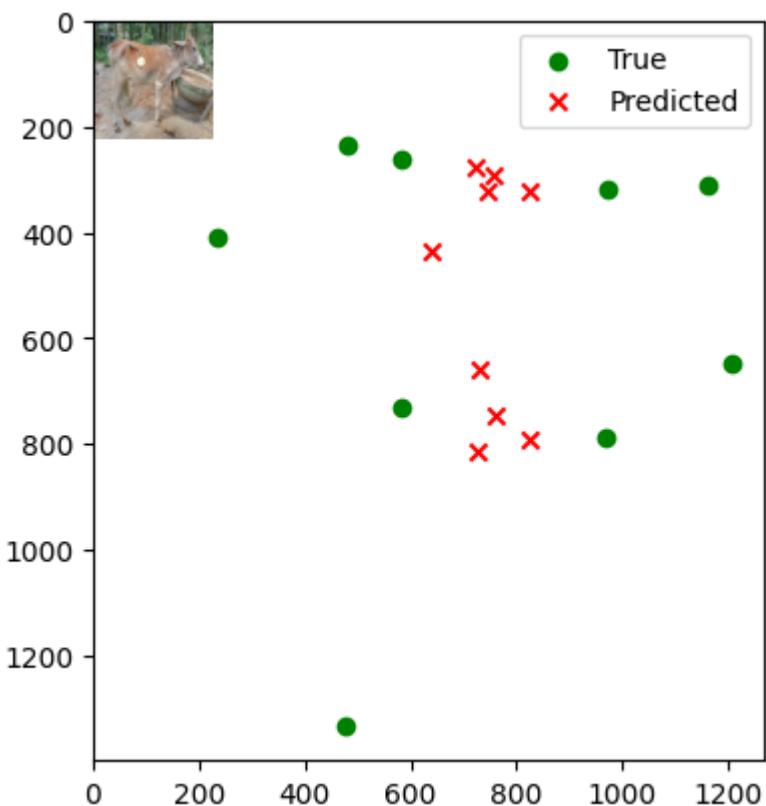


Image number: 5

True keypoints: [1216. 287. 234. 367. 1234. 601. 1006. 300. 1003. 768. 55
4. 241.

566. 699. 440. 227. 483. 1254.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[790.99896 343.2333]

[682.8182 464.45294]

[772.72766 699.33405]

[877.18665 345.5754]

[878.18176 840.82983]

[808.10846 311.48108]

[811.42645 793.42957]

[770.14185 298.976]

[774.76697 867.8983]]

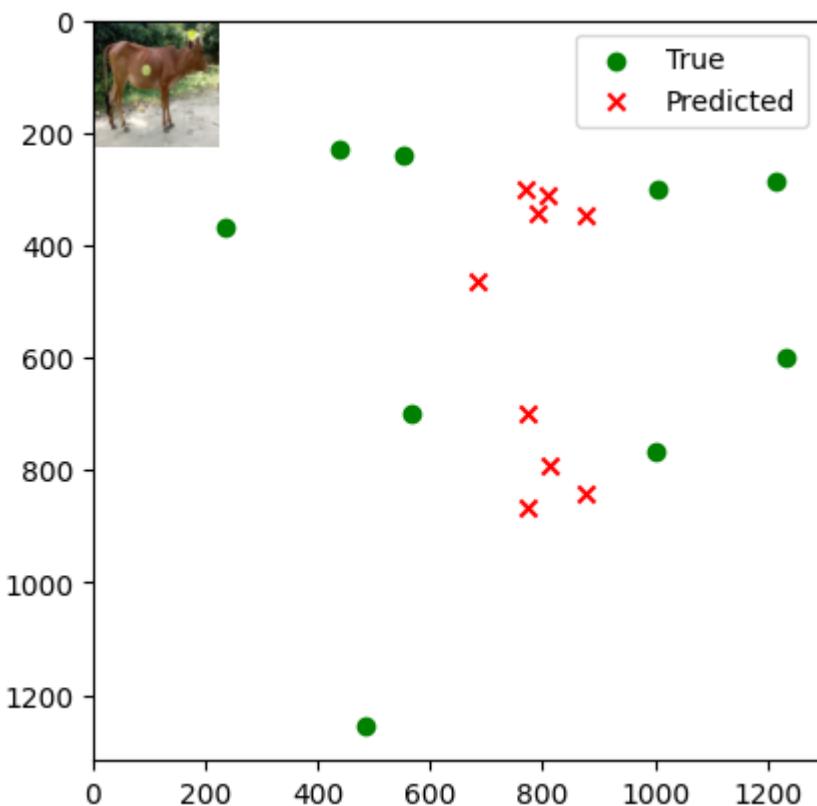


Image number: 6

True keypoints: [1290. 284. 108. 333. 1304. 627. 1044. 261. 1042. 796. 44. 9. 197.]

466. 754. 284. 206. 322. 1327.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[737.9899 317.11972]

[634.31067 431.82428]

[721.2214 652.02045]

[816.2087 319.40125]

[817.3118 783.2296]

[751.34753 286.0276]

[754.3766 739.0939]

[715.56616 273.83298]

[720.14795 807.6685]]

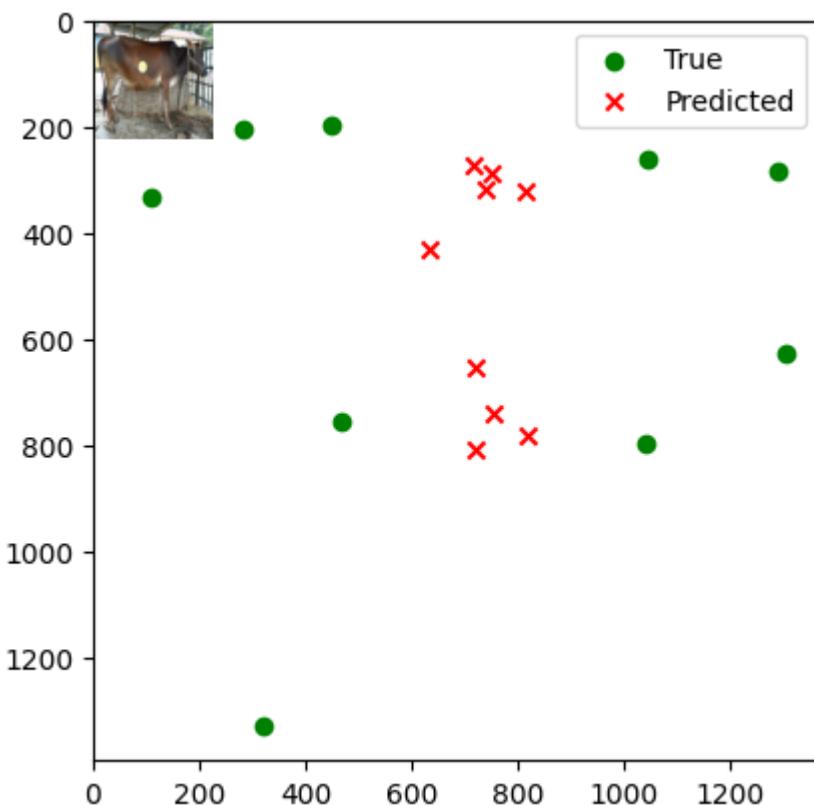


Image number: 7

True keypoints: [1142. 374. 177. 551. 1189. 688. 957. 393. 985. 849. 47. 8. 388.]

508. 836. 398. 383. 455. 1307.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[833.6007 365.63885]

[722.18085 491.36133]

[813.97455 737.5587]

[926.79346 367.83002]

[927.9651 887.55695]

[854.5143 333.87286]

[858.14075 837.47205]

[814.86676 321.3117]

[819.2351 916.944]]

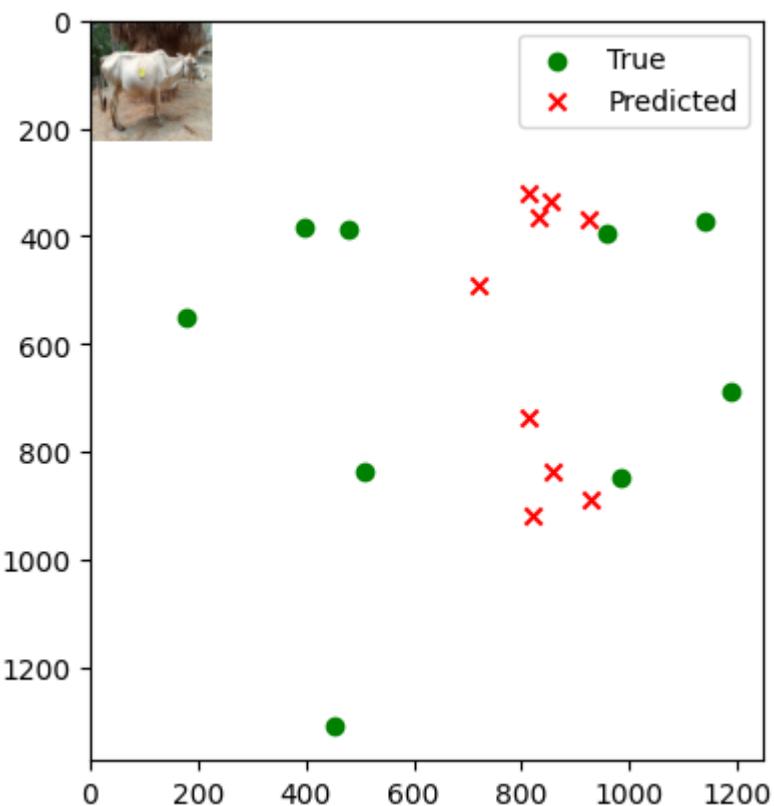


Image number: 8

True keypoints: [710. 213. 1610. 371. 656. 518. 882. 237. 896. 667. 129
1. 194.

1284. 634. 1413. 180. 1434. 1073.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[726.58044 311.9733]

[623.9913 425.04932]

[710.1608 641.98425]

[803.29456 314.17258]

[804.3546 770.9361]

[739.2512 281.1139]

[742.28253 727.56287]

[703.99725 268.99527]

[708.53394 794.86884]]

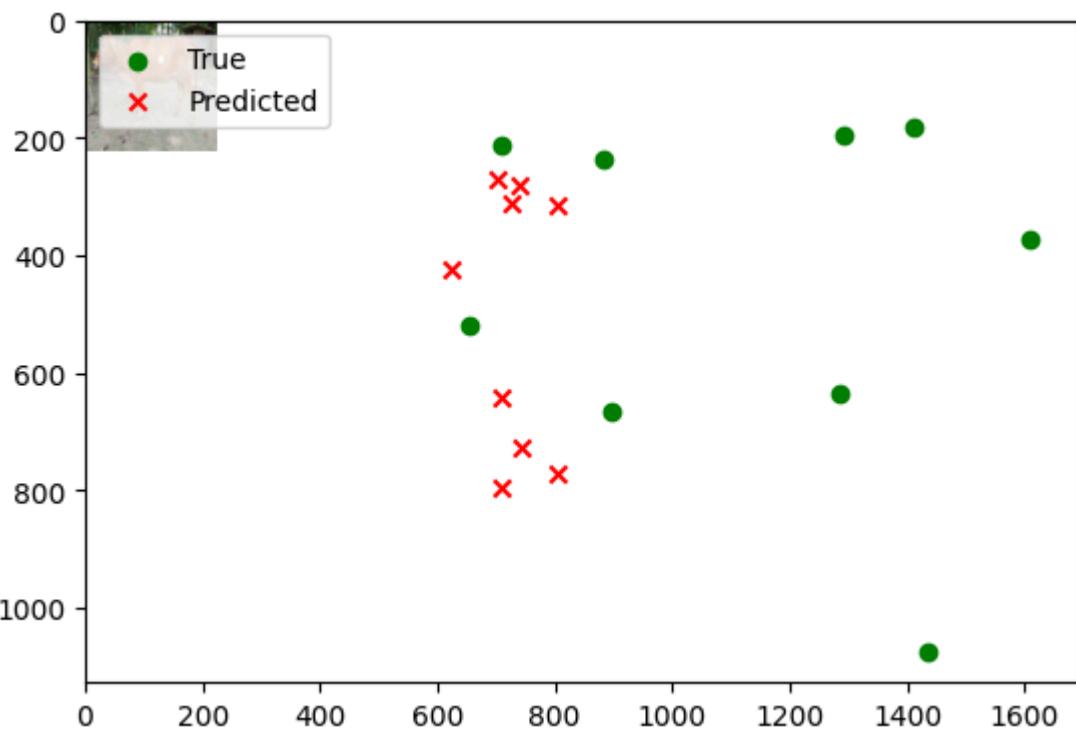


Image number: 9

True keypoints: [682. 290. 1545. 433. 689. 596. 873. 321. 885. 755. 1279. 298.

1285. 699. 1340. 290. 1354. 1137.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[771.99194 334.44998]

[666.17163 453.04858]

[754.15735 682.3726]

[855.8174 336.75446]

[856.9352 820.4975]

[788.4748 303.34027]

[791.7268 774.11664]

[751.40936 291.05115]

[755.9053 846.7849]]

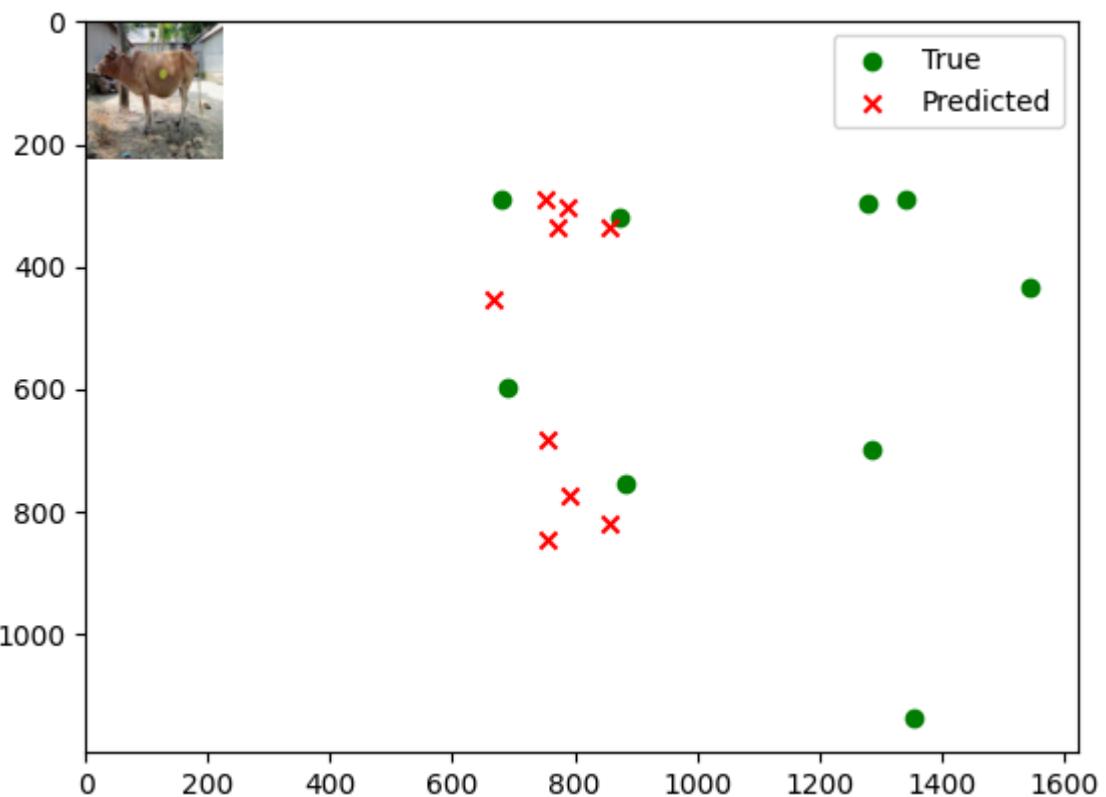


Image number: 10

True keypoints: [1206. 416. 438. 540. 1256. 721. 1056. 456. 1039. 859. 70. 9. 400.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[829.08374 362.35287]

[719.0402 488.03333]

[809.52155 733.09094]

[921.5922 364.81305]

[922.7125 882.659]

[850.0279 330.80078]

[853.52234 832.5383]

[810.7196 318.1796]

[815.2334 911.8744]]

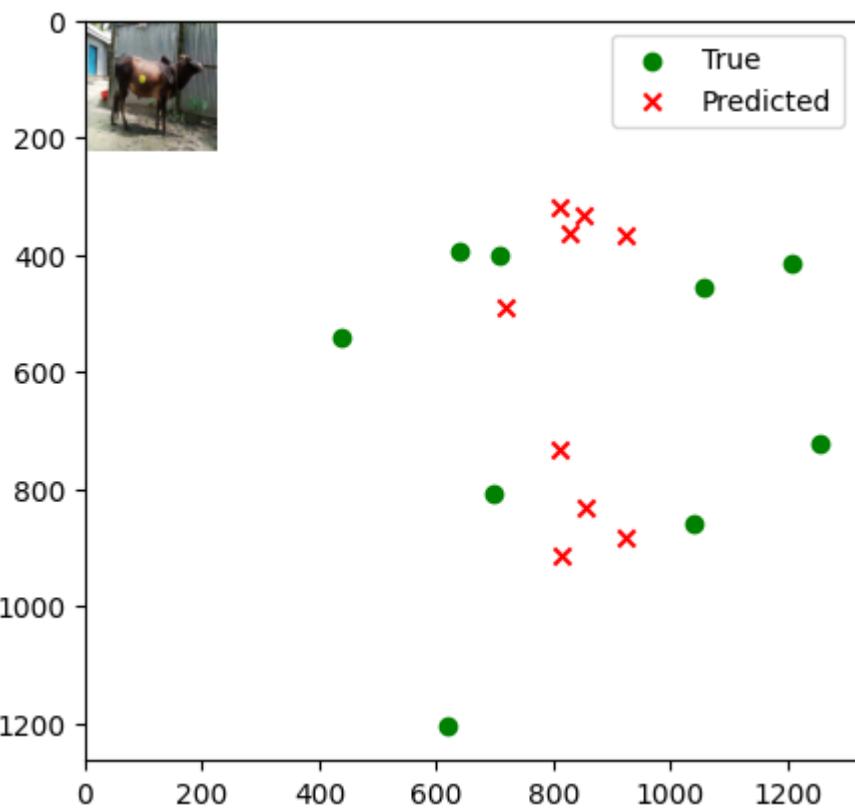


Image number: 11

True keypoints: [1209. 323. 243. 409. 1181. 637. 962. 310. 958. 769. 55
9. 284.

565. 716. 481. 267. 501. 1125.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[742.7109 320.43463]

[638.4847 435.231]

[725.75183 656.4689]

[821.9582 322.5781]

[823.21 788.5846]

[756.70715 289.5323]

[759.82806 744.1856]

[720.7123 277.44876]

[725.12036 813.3043]]

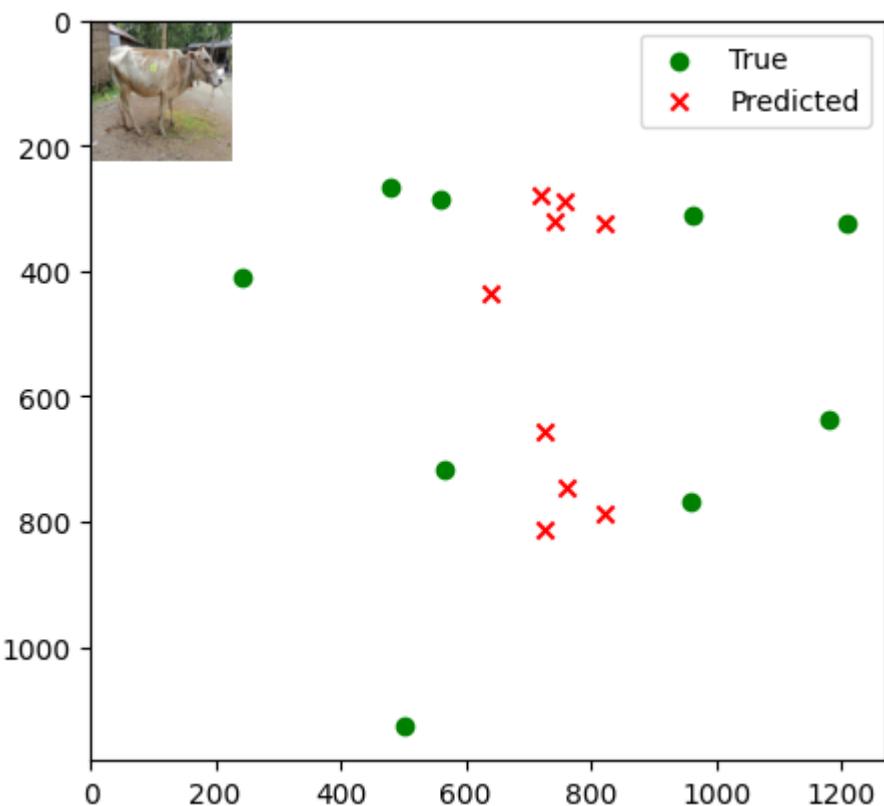


Image number: 12

True keypoints: [1298. 304. 174. 455. 1359. 686. 1076. 319. 1083. 868. 54. 6. 263.

547. 810. 425. 240. 437. 1364.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[770.70013 333.6749]

[664.60974 452.1518]

[752.9215 681.2101]

[854.11536 335.96323]

[855.299 818.98676]

[786.83136 302.48166]

[790.05347 772.7257]

[749.76514 290.17868]

[754.26447 845.1223]]

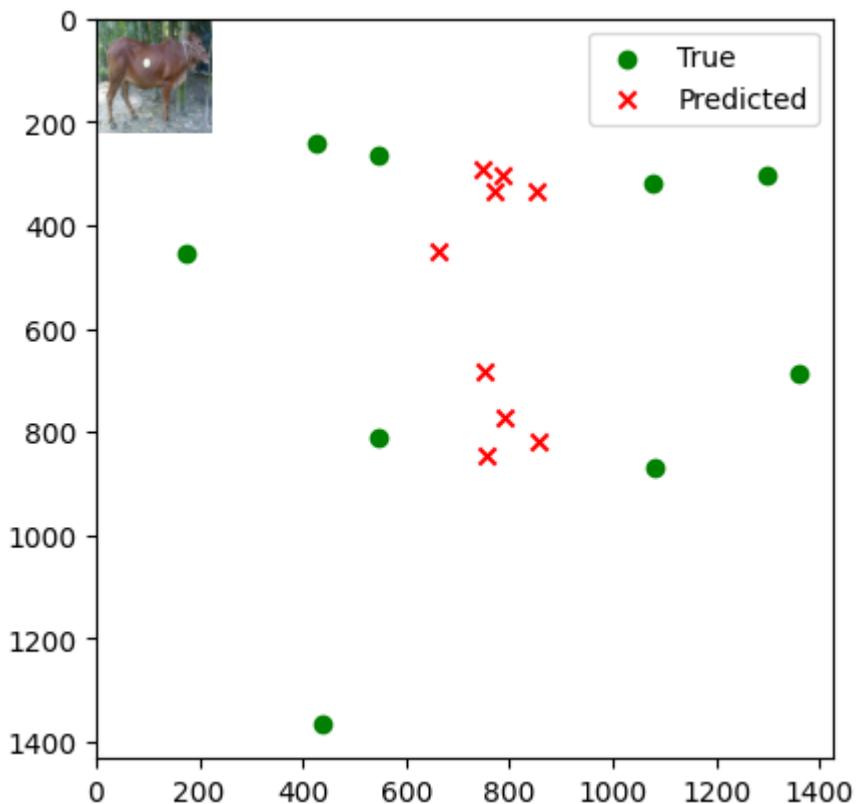


Image number: 13

True keypoints: [759. 139. 1748. 268. 737. 470. 945. 144. 969. 596. 142. 5. 136.

1429. 582. 1507. 121. 1517. 1030.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[663.22345 282.9525]

[563.3554 387.27753]

[648.9042 586.6711]

[730.2006 284.49774]

[731.2329 701.8852]

[670.0063 252.25604]

[672.9575 663.25165]

[636.9903 240.58319]

[641.4264 722.3794]]

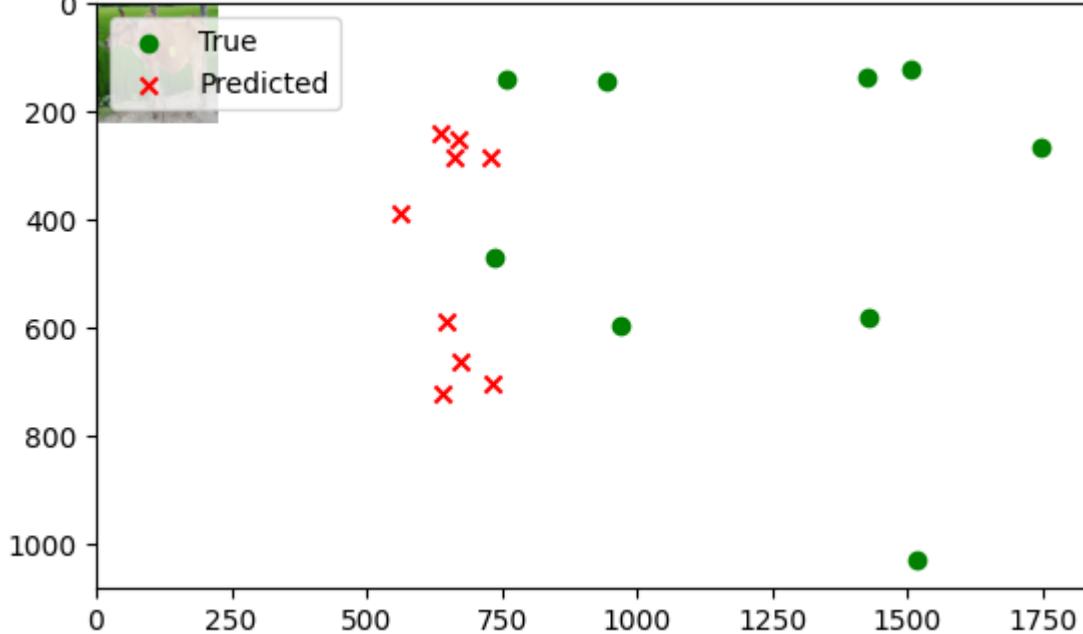


Image number: 14

True keypoints: [1246. 214. 172. 383. 1306. 553. 1031. 241. 1051. 761. 53

9. 211.

553. 714. 437. 202. 465. 1224.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[735.9791 315.91122]

[631.1526 430.51215]

[719.44116 650.47046]

[813.3001 318.0539]

[814.2528 780.6385]

[748.12164 284.24115]

[751.1404 736.96423]

[712.21 271.9537]

[716.9313 804.75464]]

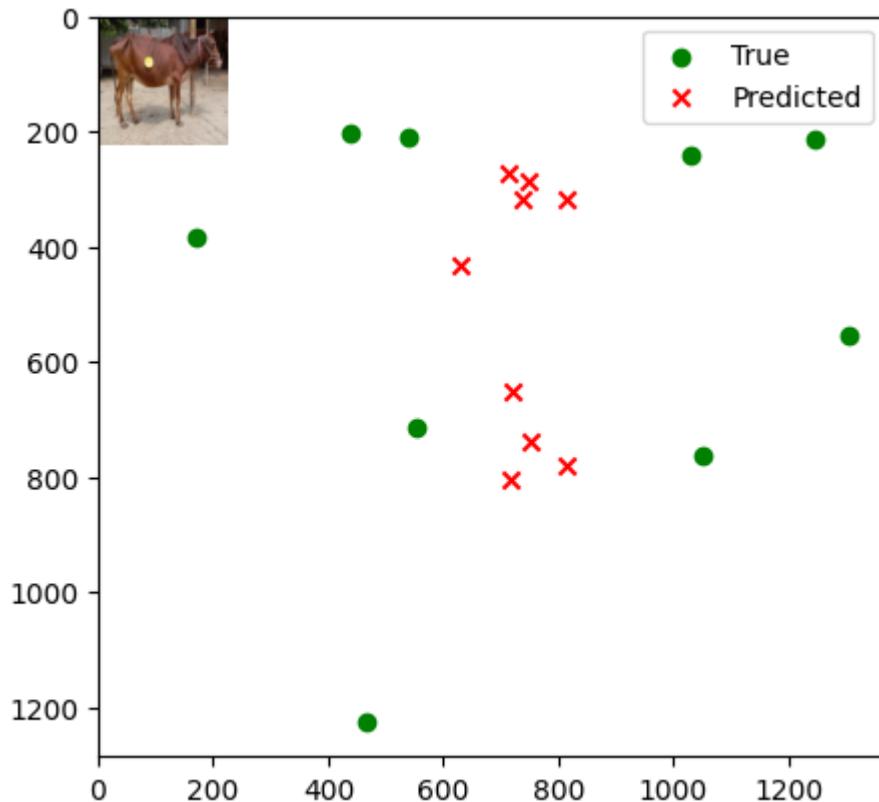


Image number: 15

True keypoints: [661. 317. 1726. 363. 644. 650. 839. 310. 878. 809. 135

5. 244.

1367. 712. 1461. 216. 1488. 1232.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[770.4466 332.56815]

[663.93884 451.50446]

[752.7396 680.8027]

[853.3059 334.946]

[854.41943 818.4005]

[785.99445 300.99915]

[789.1205 772.15765]

[748.84973 288.56213]

[753.5102 844.3716]]

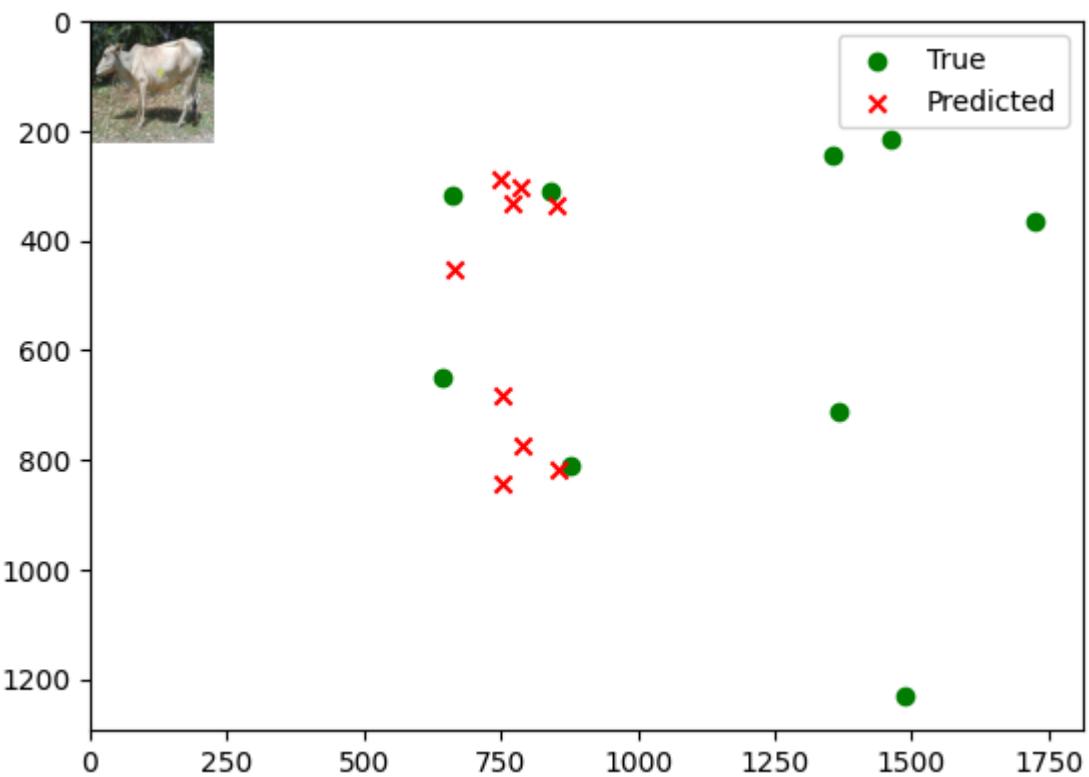


Image number: 16

True keypoints: [1154. 297. 279. 347. 1230. 548. 982. 304. 985. 734. 58. 6. 216.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[724.45874 312.55682]

[618.1744 424.66217]

[708.4679 641.3064]

[799.92163 314.08002]

[801.0147 768.0566]

[734.7899 280.67792]

[737.97986 725.73755]

[699.0093 268.5511]

[703.48755 791.32385]]

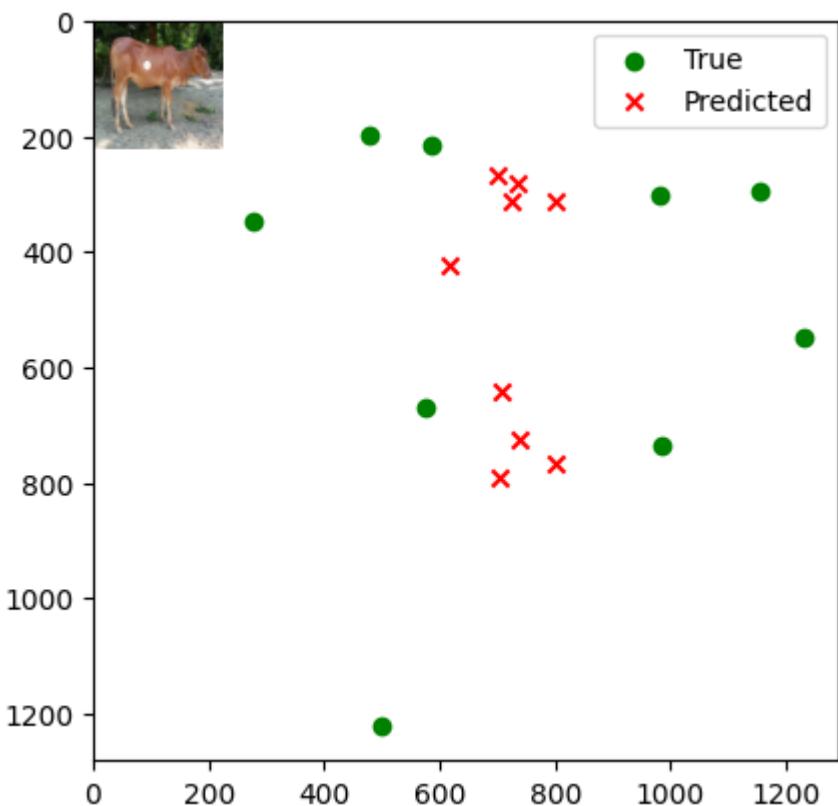


Image number: 17

True keypoints: [703. 312. 1688. 443. 723. 589. 917. 306. 927. 788. 134. 4. 330.

1343. 776. 1452. 333. 1439. 1226.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[807.6452 352.16678]

[698.9517 475.0307]

[788.71094 714.10144]

[896.9093 354.51694]

[898.1427 859.34326]

[826.9226 320.8134]

[830.35925 810.671]

[788.414 308.36627]

[792.832 887.4512]]

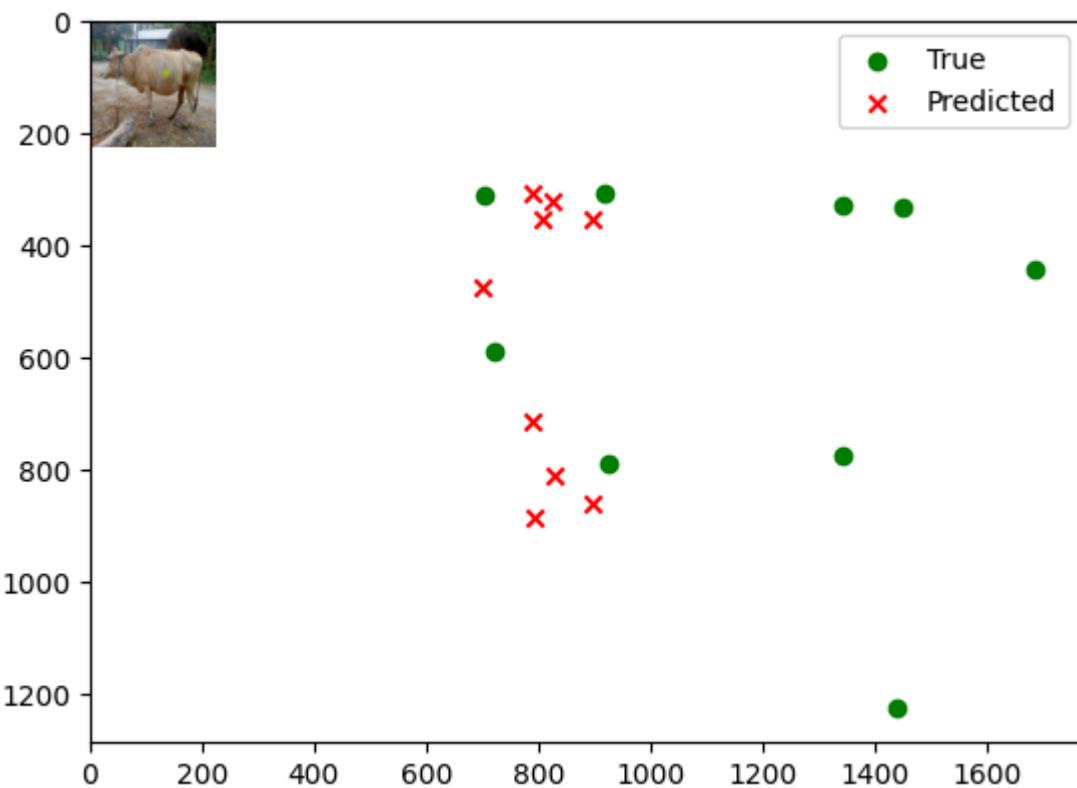


Image number: 18

True keypoints: [664. 337. 1630. 430. 660. 650. 881. 318. 890. 787. 134
9. 300.

1339. 727. 1428. 290. 1411. 1230.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[830.7573 361.65924]

[719.2146 488.29004]

[811.2704 734.3831]

[922.4456 364.1879]

[923.4863 883.79736]

[850.501 329.25656]

[853.88617 833.7644]

[810.8614 316.45294]

[815.6062 912.7643]]

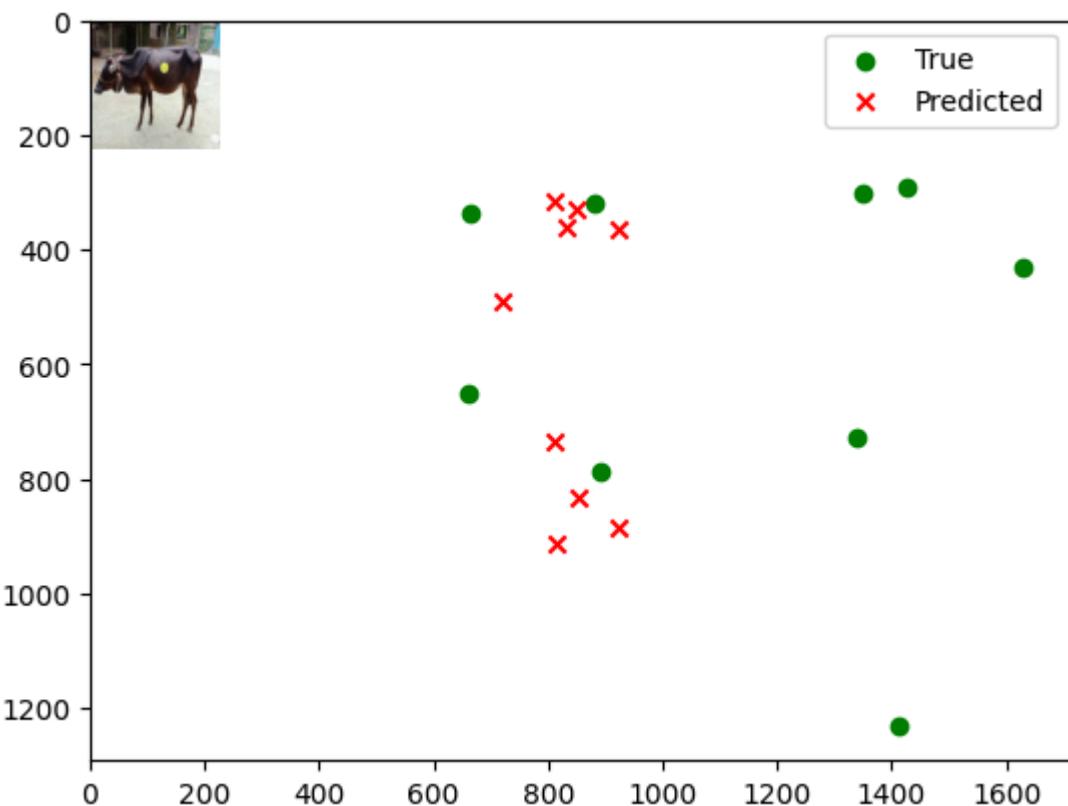


Image number: 19

True keypoints: [1196. 363. 223. 461. 1209. 706. 1012. 369. 975. 884. 52. 5. 324.

525. 768. 424. 310. 413. 1274.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[735.6168 319.81644]

[625.0219 432.5626]

[719.57135 652.32153]

[812.0766 320.75143]

[813.2785 779.797]

[745.02014 287.06512]

[748.4413 737.54083]

[708.25305 274.85153]

[712.55176 803.0622]]

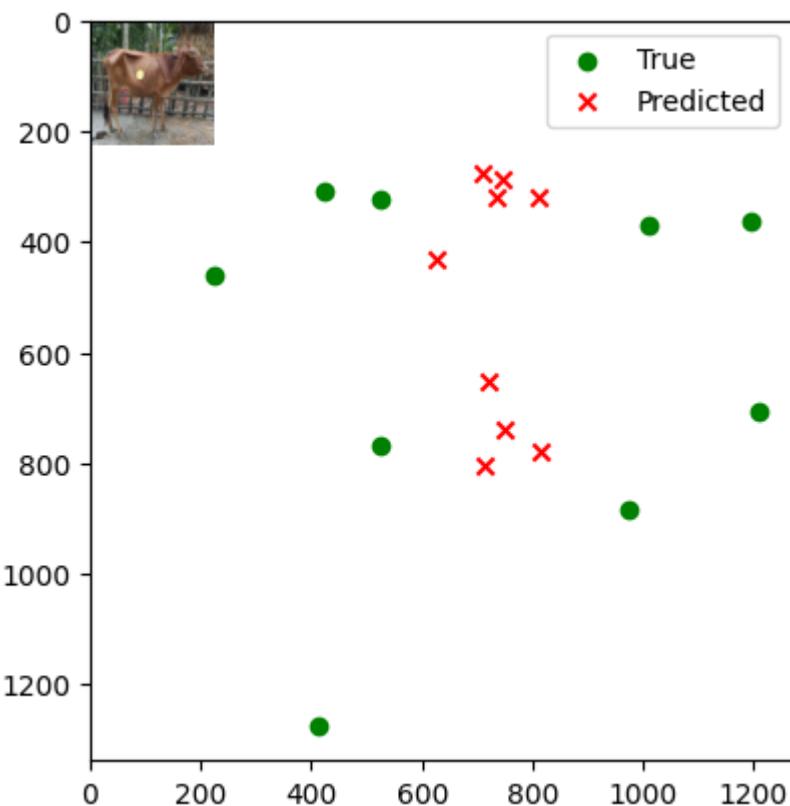


Image number: 20

True keypoints: [1171. 198. 177. 353. 1228. 563. 972. 214. 968. 745. 49. 4. 183.

503. 671. 390. 172. 411. 1251.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[659.6056 282.54318]

[554.7163 385.85825]

[645.86206 584.84265]

[724.4103 283.28848]

[725.40314 696.9347]

[662.8679 250.256]

[665.9415 659.7345]

[629.19183 238.48294]

[633.66034 716.39655]]

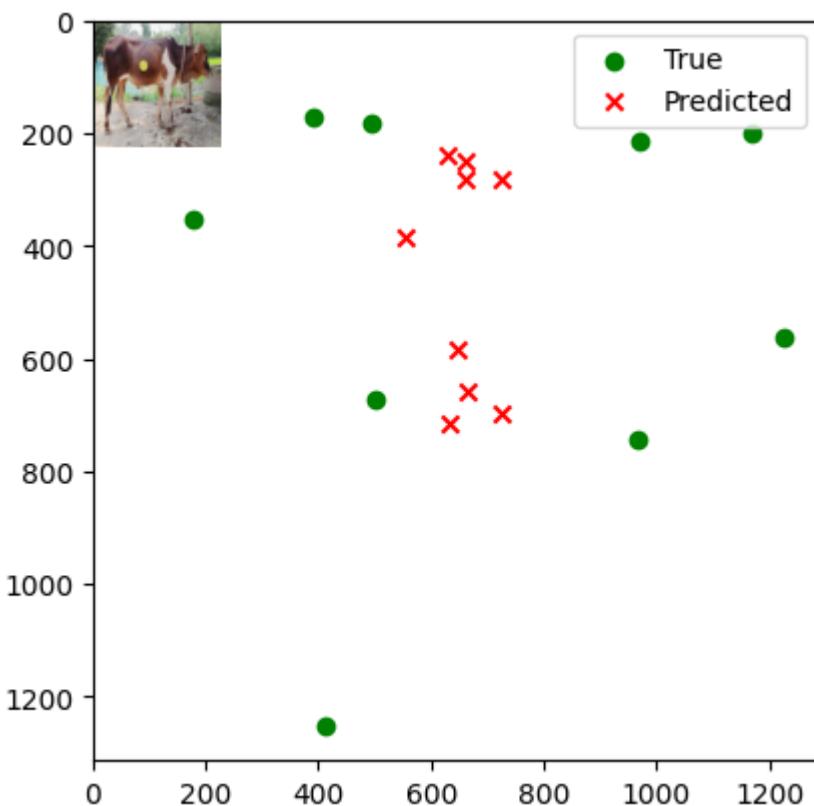


Image number: 21

True keypoints: [725. 293. 1715. 468. 665. 616. 942. 292. 956. 818. 139
4. 293.

1400. 762. 1479. 282. 1457. 1330.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[801.0275 348.25055]

[692.7417 470.65726]

[782.3558 708.1057]

[889.02936 350.67035]

[890.1863 851.97516]

[819.5065 316.76733]

[822.8644 803.70715]

[781.24884 304.2724]

[785.76526 879.6555]]

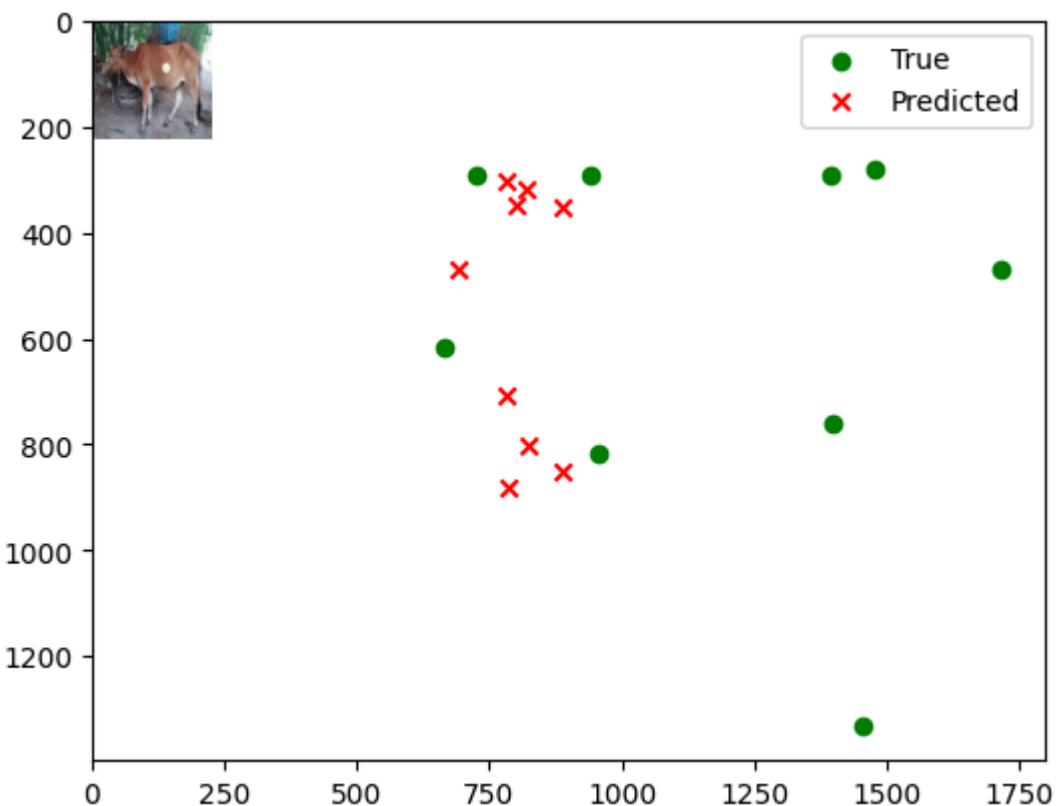


Image number: 22

True keypoints: [696. 241. 1698. 352. 644. 617. 935. 272. 942. 761. 137
6. 225.

1381. 669. 1472. 201. 1475. 1301.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[770.50793 332.13016]

[663.89655 451.32556]

[752.81036 680.7733]

[853.1734 334.56982]

[854.1887 818.2827]

[785.7985 300.389]

[788.89374 772.1353]

[748.63727 287.9093]

[753.37726 844.2462]]

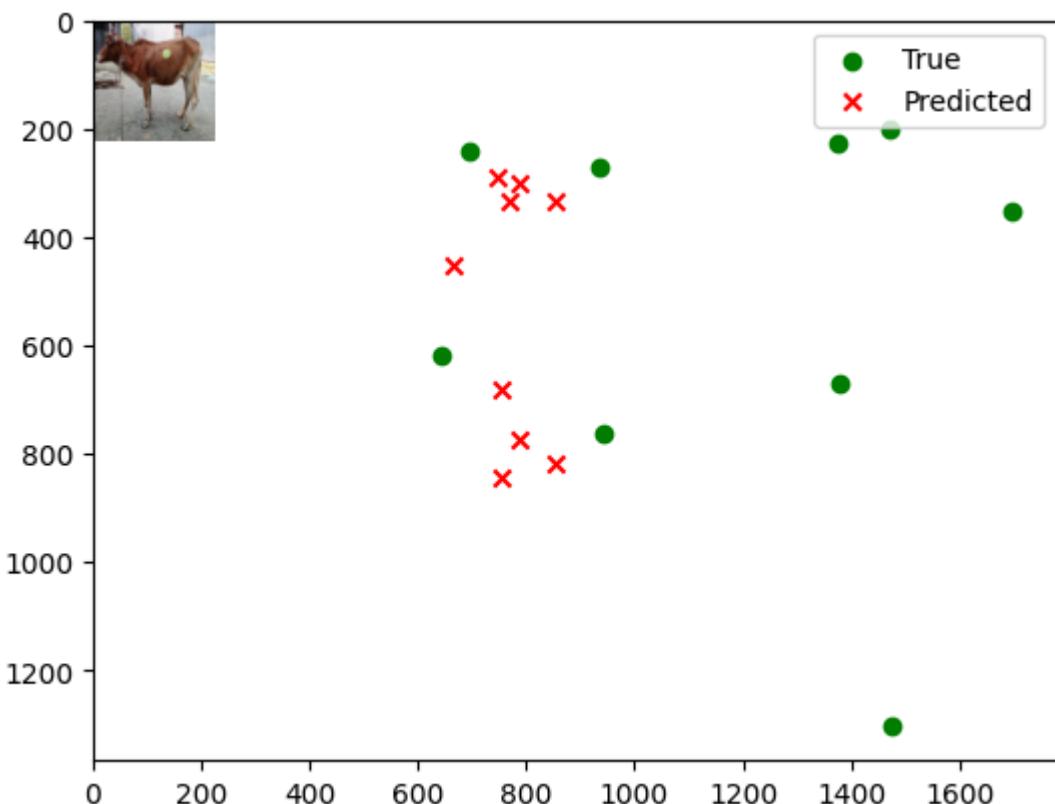


Image number: 23

True keypoints: [1250. 237. 250. 378. 1268. 585. 1044. 253. 1048. 724. 58
1. 231.

590. 703. 481. 219. 498. 1190.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[775.2101 335.2021]

[668.9597 454.5956]

[757.31573 685.0392]

[859.15735 337.63266]

[860.2382 823.7683]

[791.58514 303.86496]

[794.7866 777.1764]

[754.3696 291.4622]

[758.9691 850.1287]]

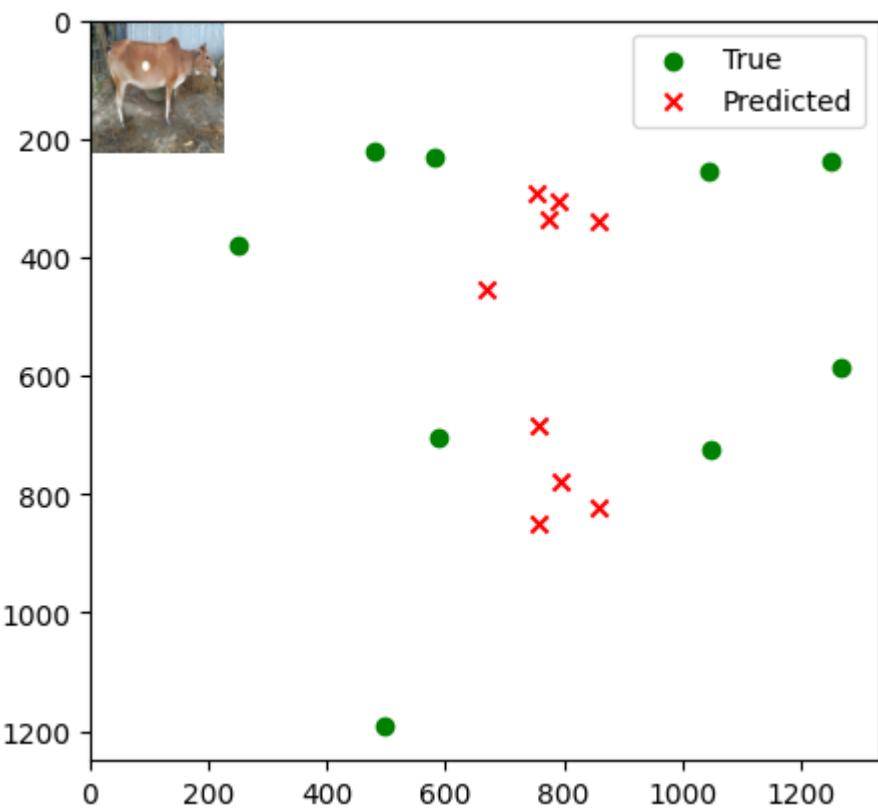


Image number: 24

True keypoints: [664. 204. 1675. 429. 594. 603. 830. 243. 838. 771. 130 0. 190.

1294. 772. 1403. 181. 1394. 1211.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[711.4718 304.49185]

[608.6247 415.78894]

[695.6422 628.8447]

[785.3551 306.52765]

[786.31744 754.1153]

[721.9883 273.1994]

[724.943 712.0607]

[687.0957 261.11157]

[691.7396 777.0624]]

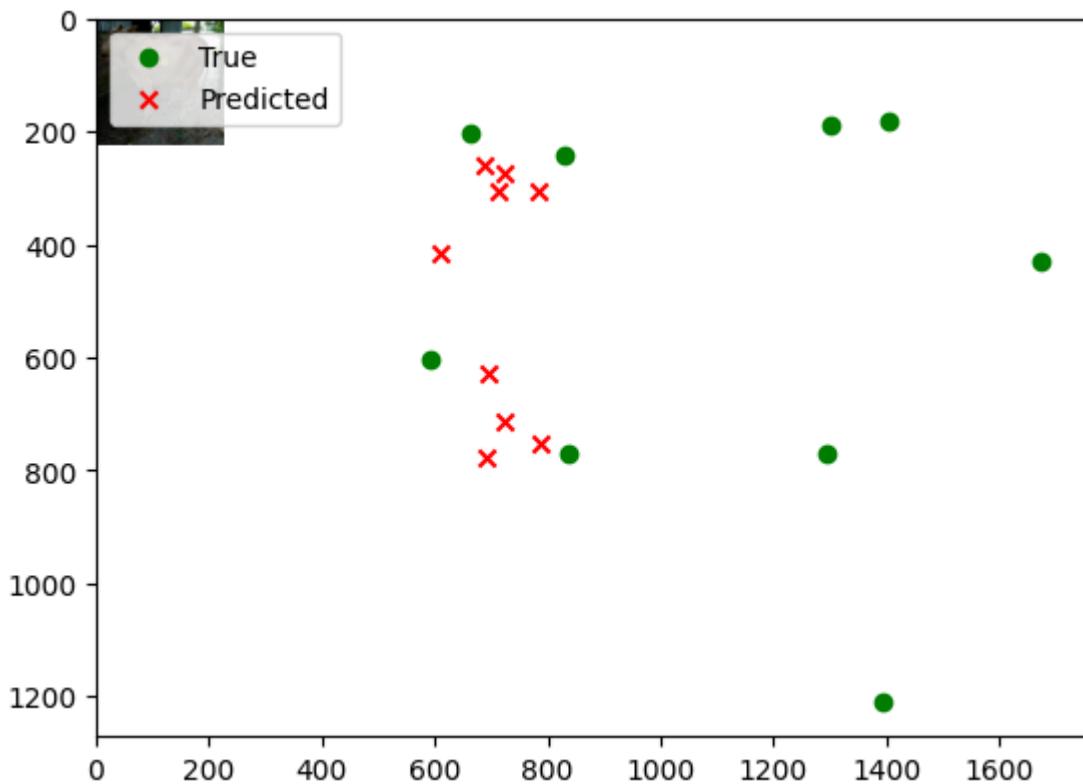


Image number: 25

True keypoints: [739. 249. 1768. 429. 662. 582. 947. 303. 944. 789. 1419. 257. 1408. 762. 1535. 234. 1526. 1231.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[777.92285 336.58063]

[671.30396 456.28516]

[759.9523 687.4808]

[862.23645 338.98862]

[863.33997 826.69775]

[794.42175 305.1668]

[797.6598 779.95557]

[757.0747 292.76068]

[761.6639 853.17053]]

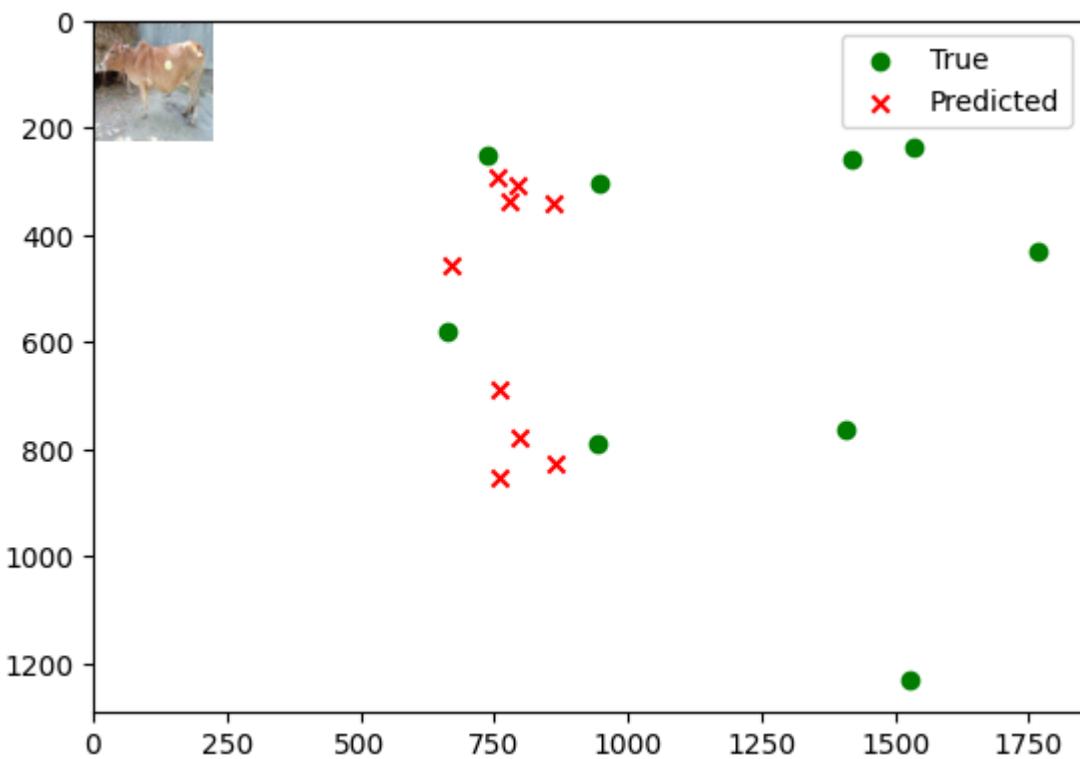


Image number: 26

True keypoints: [675. 296. 1640. 411. 632. 634. 863. 297. 877. 771. 133
1. 278.

1322. 723. 1426. 276. 1410. 1227.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[799.7792 347.21674]
[691.07983 469.62854]
[781.15155 706.9205]
[887.2083 349.62753]
[888.3631 850.39825]
[817.7231 315.47607]
[821.00415 802.2544]
[779.4097 302.9146]
[784.02136 877.8896]]

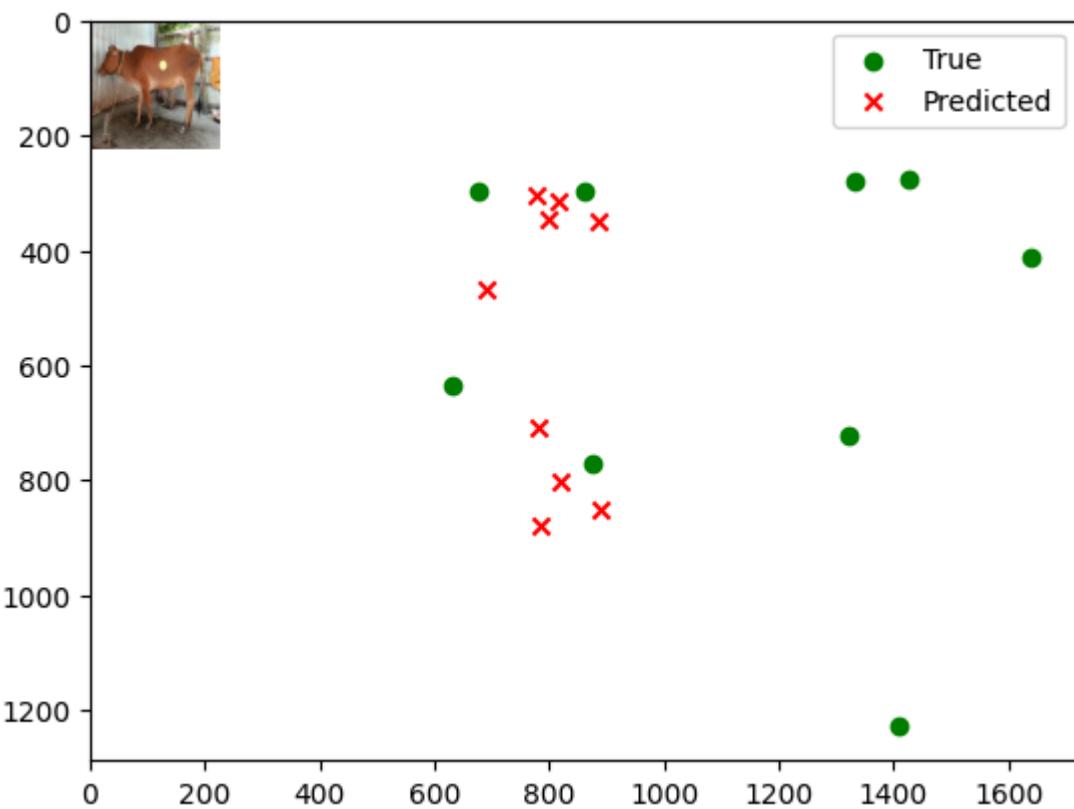


Image number: 27

True keypoints: [857. 337. 1819. 519. 796. 671. 1057. 343. 1060. 824. 146. 6. 339.

1475. 776. 1605. 326. 1603. 1258.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[819.1499 356.86972]

[709.0328 481.6085]

[799.9602 724.2019]

[909.6299 359.29355]

[910.7357 871.52704]

[838.65314 324.97635]

[842.0509 822.1547]

[799.5854 312.3269]

[804.1675 900.05963]]

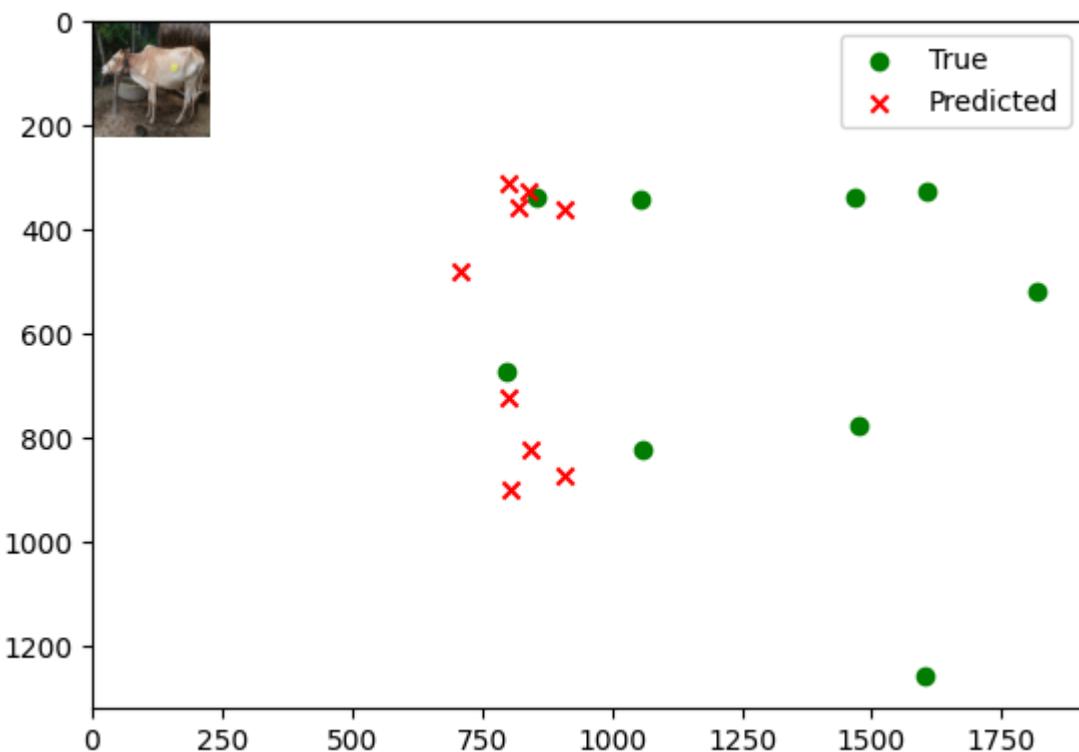


Image number: 28

True keypoints: [817. 332. 1680. 369. 789. 604. 981. 313. 994. 730. 140
8. 290.
1417. 669. 1504. 269. 1522. 1185.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[785.87646 341.2249]
[678.9334 461.54404]
[767.6052 694.6767]
[871.79346 343.57883]
[873.0149 835.6367]
[803.4904 310.08337]
[806.78784 788.2898]
[765.8611 297.71222]
[770.30237 862.6053]]

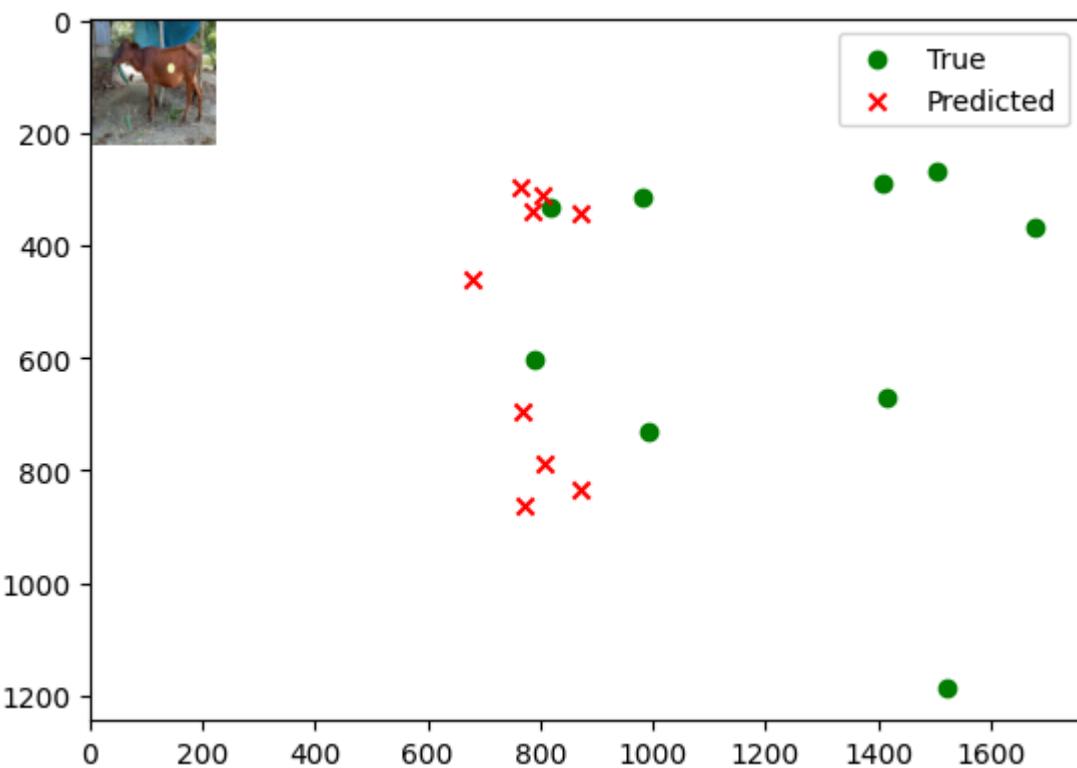


Image number: 29

True keypoints: [689. 272. 1667. 426. 648. 659. 861. 327. 885. 844. 133
9. 282.

1351. 764. 1429. 276. 1457. 1267.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[735.9469 317.13165]
[629.39545 431.1628]
[719.52496 651.05676]
[813.02423 318.89777]
[814.1635 780.5206]
[747.3707 285.20825]
[750.4869 737.1689]
[711.1518 272.94284]
[715.7196 804.3383]]

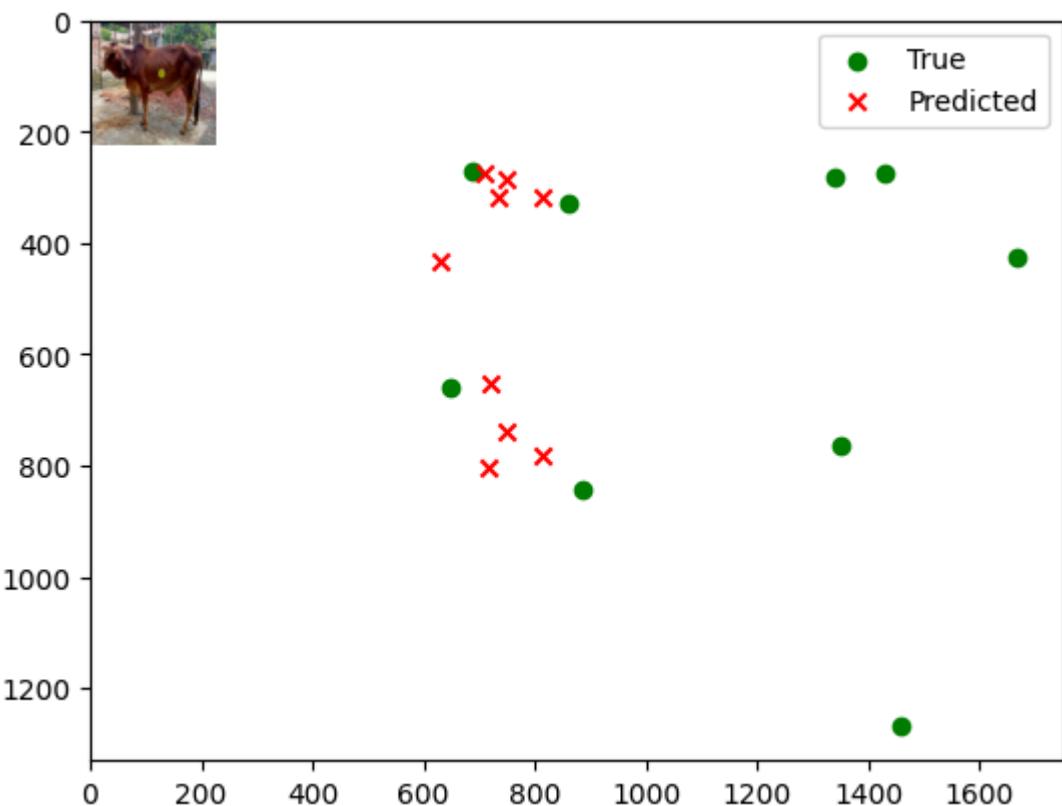


Image number: 30

True keypoints: [710. 277. 1684. 421. 672. 614. 895. 289. 904. 760. 138
5. 263.

1380. 701. 1455. 245. 1483. 1205.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[771.1909 333.35135]

[665.20984 452.20447]

[753.41125 681.5223]

[854.562 335.72687]

[855.6321 819.4185]

[787.2598 302.023]

[790.4348 773.10095]

[750.17816 289.64154]

[754.7763 845.572]]

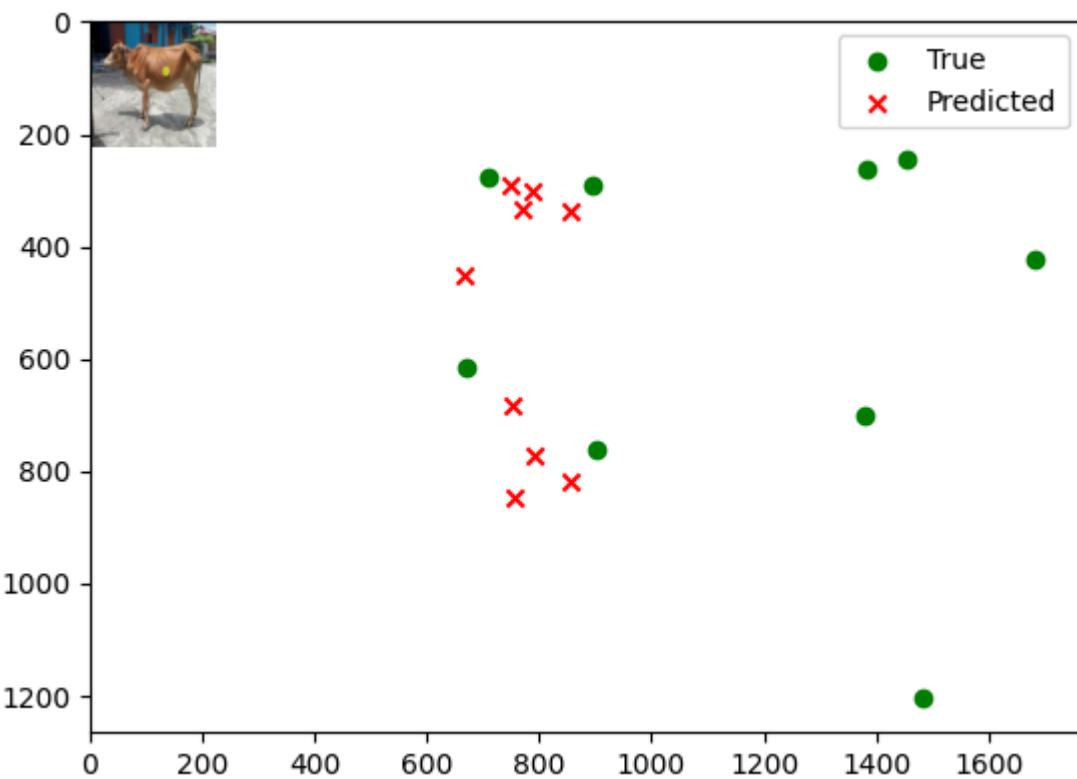


Image number: 31

True keypoints: [1259. 322. 300. 440. 1231. 567. 1008. 291. 1030. 745. 59 0. 284.]

612. 720. 504. 271. 549. 1131.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[710.45245 305.55933]

[602.1614 416.0763]

[695.17224 629.39606]

[782.5216 306.71844]

[783.58527 752.0598]

[717.589 272.69058]

[720.69324 711.21576]

[681.856 260.43616]

[686.48016 773.9933]]

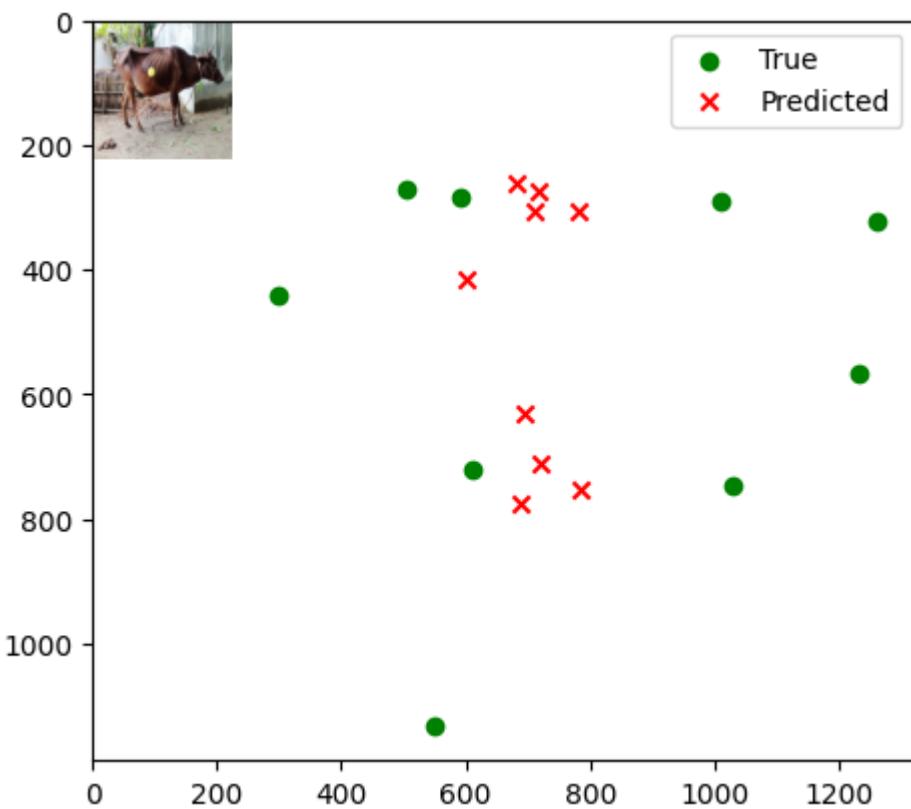


Image number: 32

True keypoints: [1164. 281. 88. 347. 1154. 642. 881. 264. 891. 770. 385. 199.]

414. 695. 286. 194. 374. 1242.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[709.59686 305.17358]]

[605.36127 415.47668]

[693.93695 627.8761]

[783.11725 306.80063]

[784.2272 752.0858]

[719.3984 273.7454]

[722.4869 710.5153]

[684.37427 261.76907]

[688.82983 774.7559]

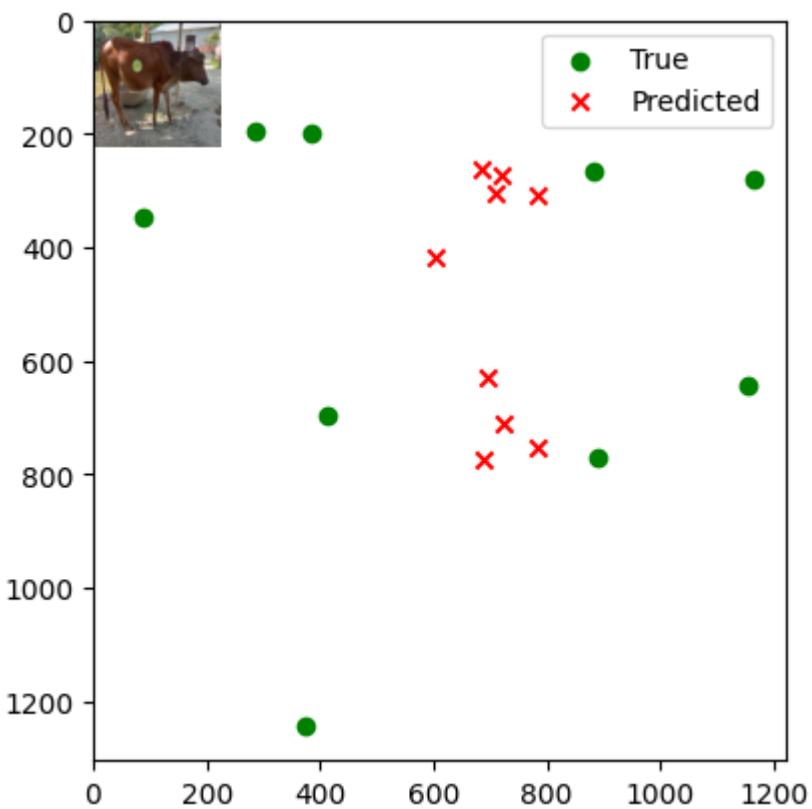


Image number: 33

True keypoints: [606. 320. 1714. 403. 646. 660. 874. 292. 905. 785. 135
3. 245.

1371. 717. 1449. 222. 1476. 1211.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[775.90344 335.8045]

[669.93427 455.17984]

[757.97797 685.7005]

[860.20764 338.21912]

[861.2827 824.6736]

[792.61975 304.62454]

[795.8557 777.98315]

[755.43677 292.2531]

[759.9803 851.1326]]

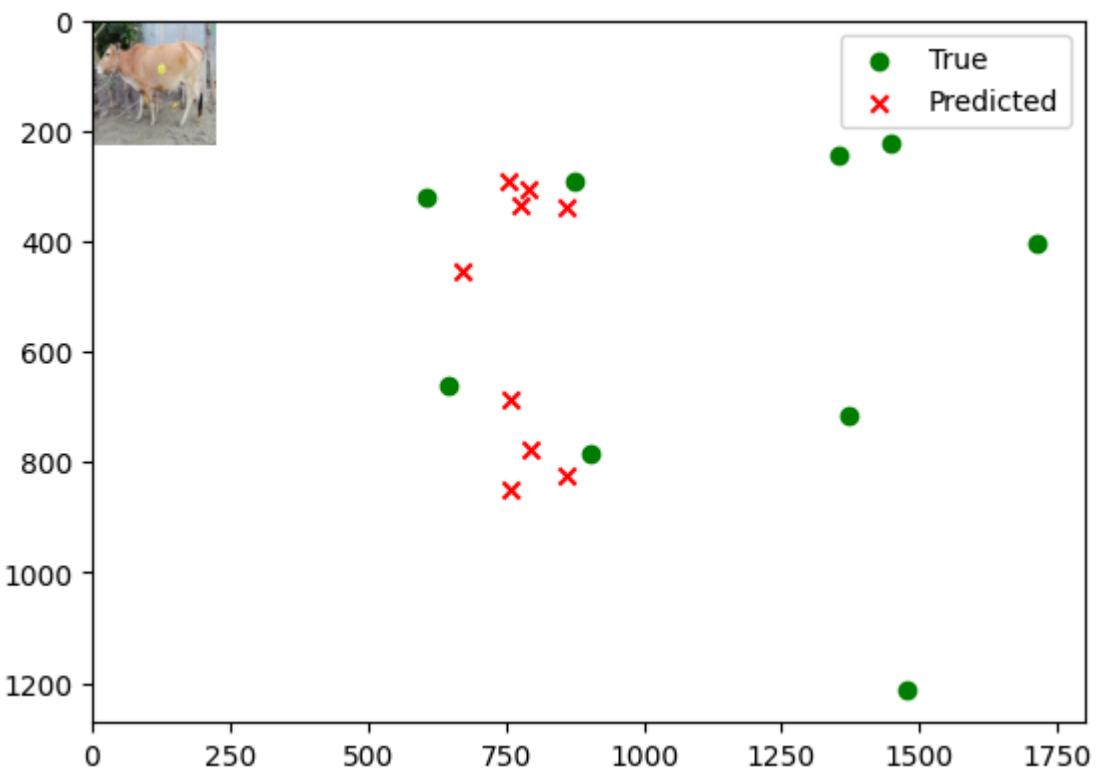


Image number: 34

True keypoints: [698. 269. 1655. 377. 693. 619. 917. 259. 941. 743. 133
8. 217.

1354. 666. 1429. 208. 1475. 1218.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[761.2768 328.34445]
[656.03345 446.04065]
[743.8002 672.6652]
[843.0839 330.72455]
[844.12225 808.5747]
[776.5143 297.06372]
[779.6503 762.90686]
[739.8314 284.72488]
[744.45526 834.2291]]

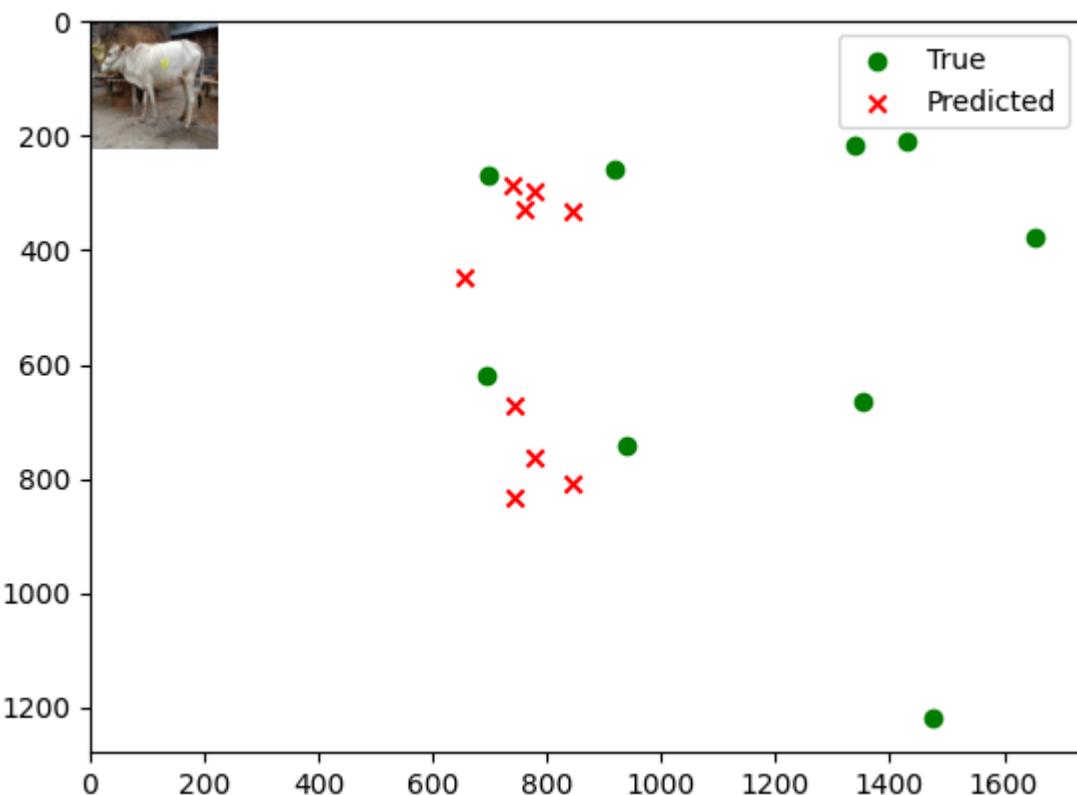


Image number: 35

True keypoints: [716. 241. 1733. 469. 670. 601. 934. 254. 945. 795. 140
2. 274.

1392. 787. 1495. 260. 1474. 1275.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[769.09717 332.86942]

[663.8741 451.19708]

[751.3375 679.71643]

[852.58936 335.24283]

[853.64355 817.3782]

[785.53046 301.88297]

[788.78235 771.1605]

[748.6502 289.60785]

[753.1444 843.5814]]

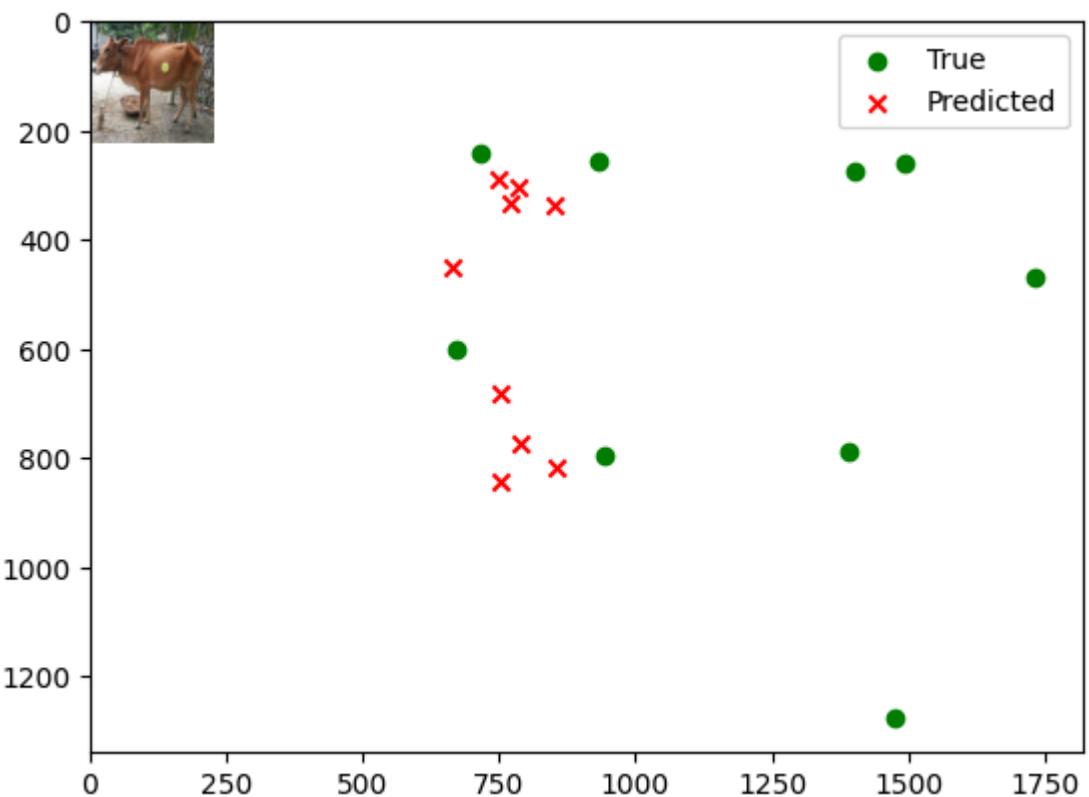


Image number: 36

True keypoints: [790. 309. 1806. 408. 750. 648. 1020. 326. 1036. 791. 149
1. 274.

1491. 724. 1578. 261. 1578. 1326.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[780.7856 337.54498]

[673.51166 457.78137]

[762.74927 689.94574]

[865.1825 339.96063]

[866.29407 829.62164]

[797.1053 305.88367]

[800.2897 782.70416]

[759.5582 293.38422]

[764.24634 856.11304]]

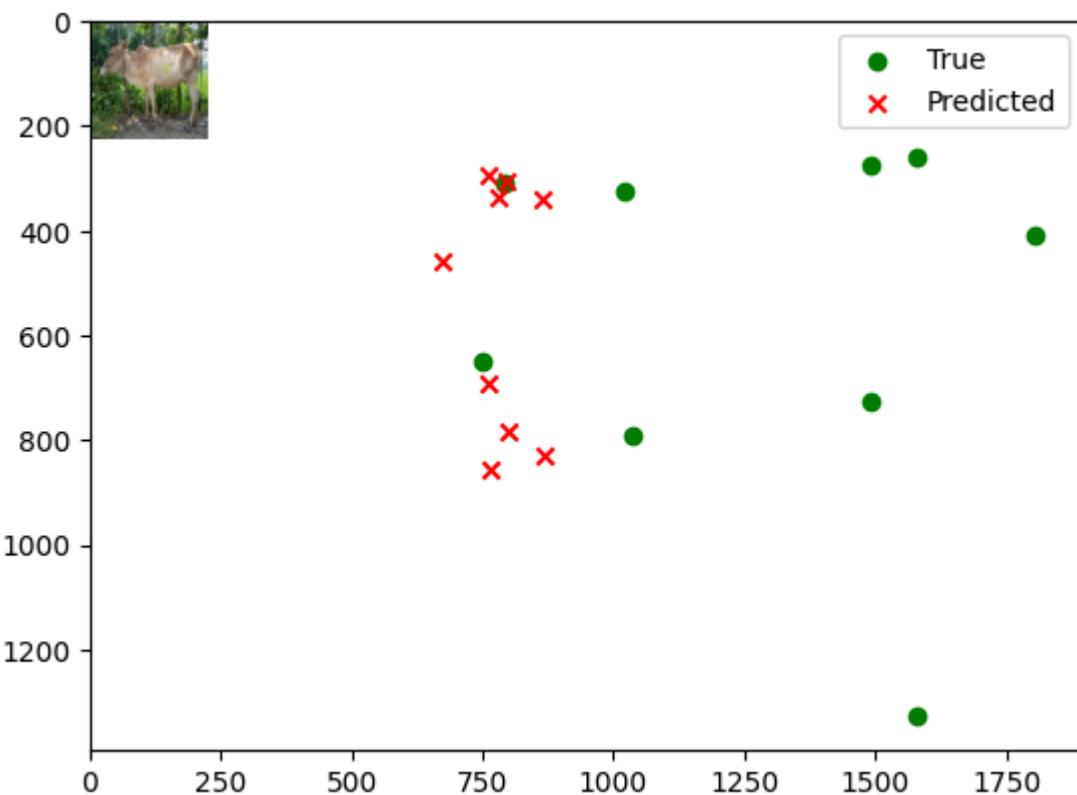


Image number: 37

True keypoints: [692. 372. 1684. 401. 739. 689. 943. 310. 977. 792. 135
5. 246.

1377. 717. 1434. 233. 1463. 1202.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[791.2356 343.21295]

[683.4654 464.49445]

[772.84717 699.3502]

[877.5473 345.60394]

[878.6969 841.2149]

[808.7465 311.677]

[812.00726 793.577]

[770.81506 299.20328]

[775.3965 868.32196]]

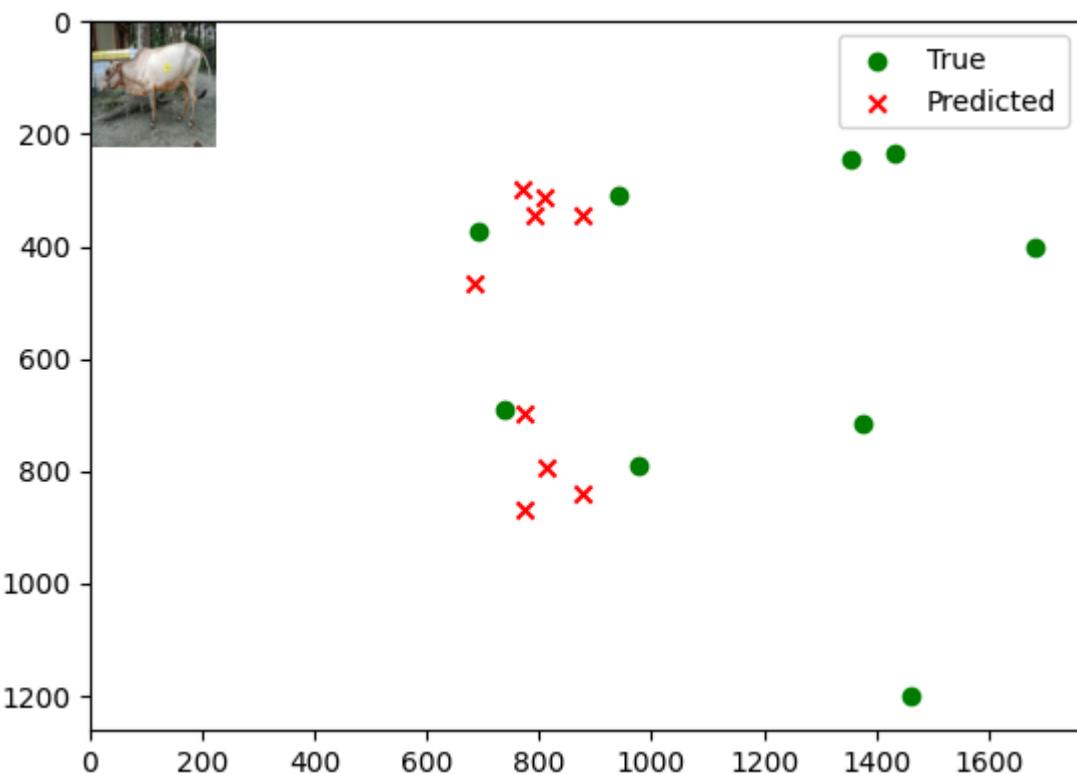


Image number: 38

True keypoints: [1181. 363. 235. 449. 1190. 703. 961. 369. 962. 825. 51. 3. 339.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[758.9035 328.80432]

[650.20044 445.46082]

[741.8262 671.6688]

[839.4524 330.52972]

[840.5657 805.4686]

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[734.77545 284.25928]

[739.3047 830.4494]]

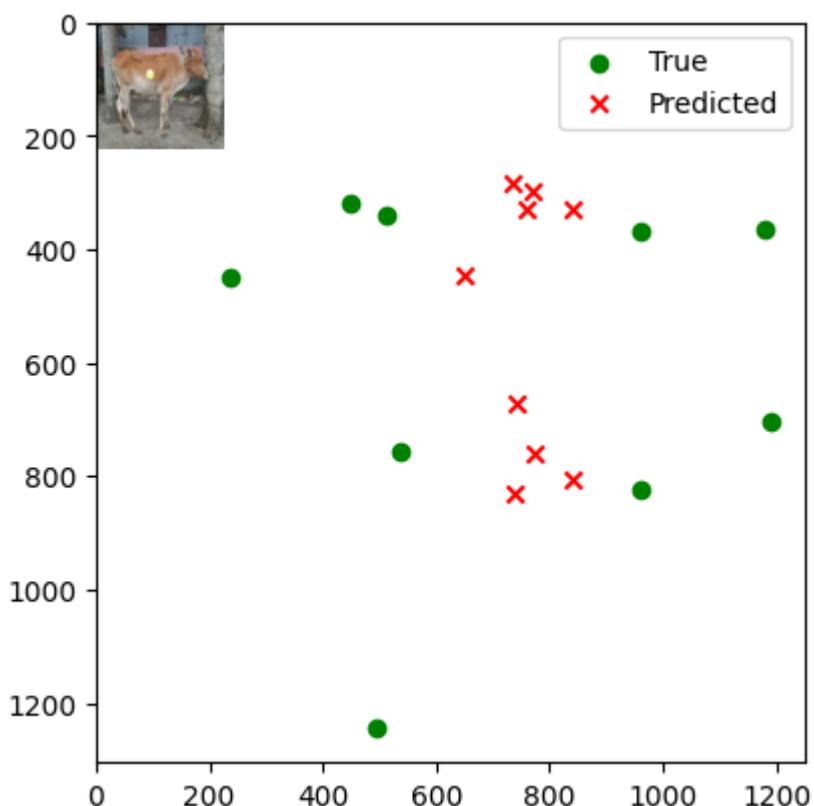


Image number: 39

True keypoints: [646. 309. 1673. 413. 662. 671. 870. 315. 906. 821. 1361. 270.]

1367. 746. 1445. 262. 1472. 1285.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[813.6571 354.0462]]

[703.68774 478.18024]

[794.67737 719.3502]

[903.10486 356.43185]

[904.19916 865.4489]

[832.4444 322.06726]

[835.8071 816.44995]

[793.562 309.42236]

[798.2014 893.5858]

[758.2014 895.5858]

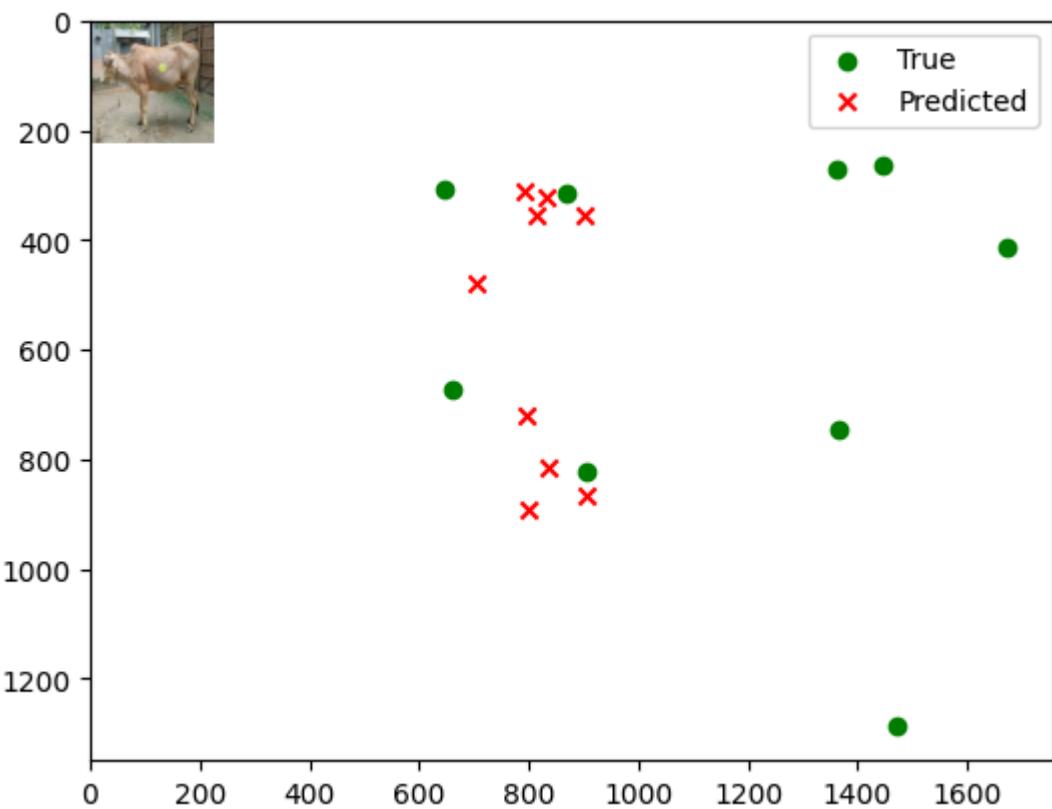


Image number: 40

True keypoints: [750. 354. 1599. 456. 709. 638. 922. 345. 939. 780. 131
3. 324.

1314. 749. 1397. 317. 1401. 1255.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[793.07135 344.31552]

[685.05 465.7104]

[774.6119 701.01904]

[879.658 346.66324]

[880.86395 843.2379]

[810.7136 312.78186]

[813.98376 795.4806]

[772.6979 300.29462]

[777.26154 870.42017]]]

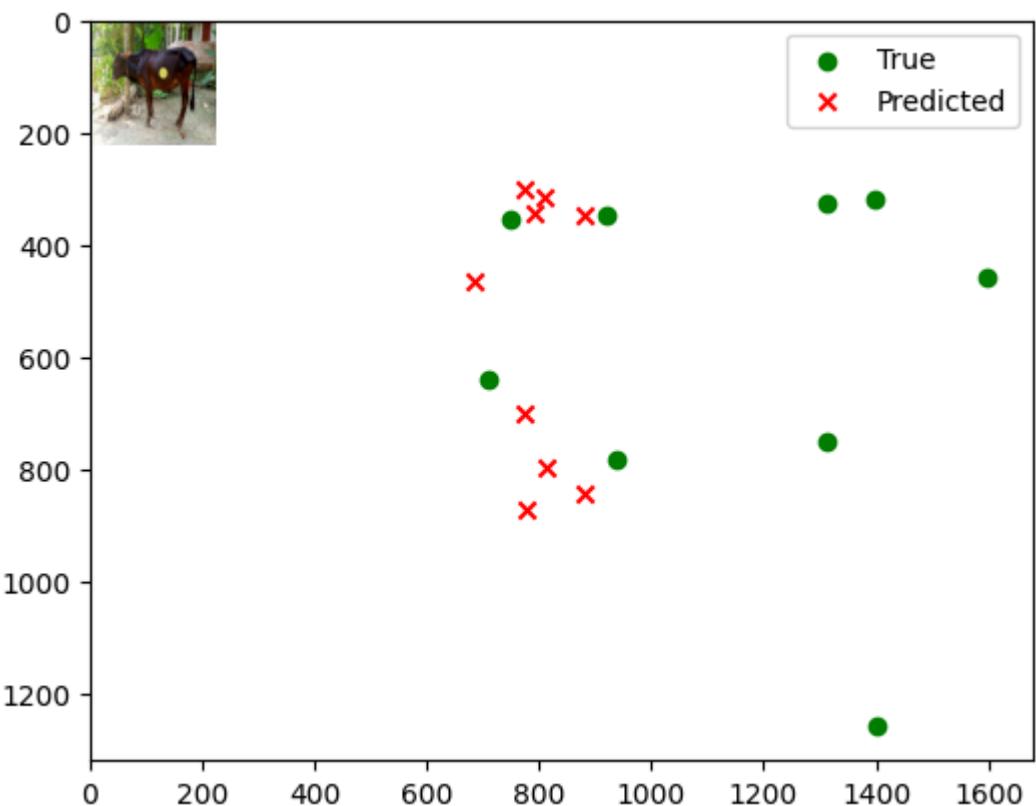


Image number: 41

True keypoints: [1224. 248. 190. 387. 1207. 585. 980. 258. 991. 744. 53. 9. 232.

554. 706. 415. 226. 438. 1242.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[731.69305 314.7387]

[627.60364 428.3226]

[715.1934 646.7849]

[808.82996 316.81912]

[809.9456 776.31024]

[744.1085 283.54428]

[747.1663 732.81226]

[708.4692 271.37015]

[713.0488 800.3211]]

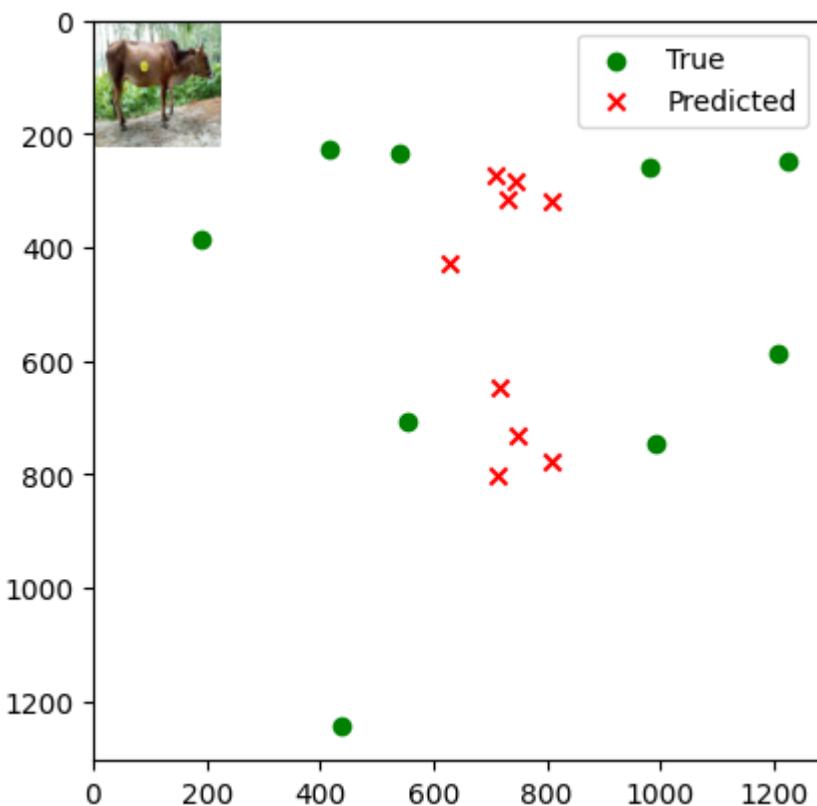


Image number: 42

True keypoints: [1164. 331. 372. 461. 1213. 647. 956. 354. 964. 780. 624. 321.

606. 740. 556. 318. 540. 1170.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[744.4535 320.79428]

[640.34436 436.01843]

[727.407 657.8264]

[823.8536 323.02136]

[825.0668 790.4141]

[758.57904 289.8364]

[761.6388 745.8152]

[722.5386 277.66702]

[727.0634 815.22894]]

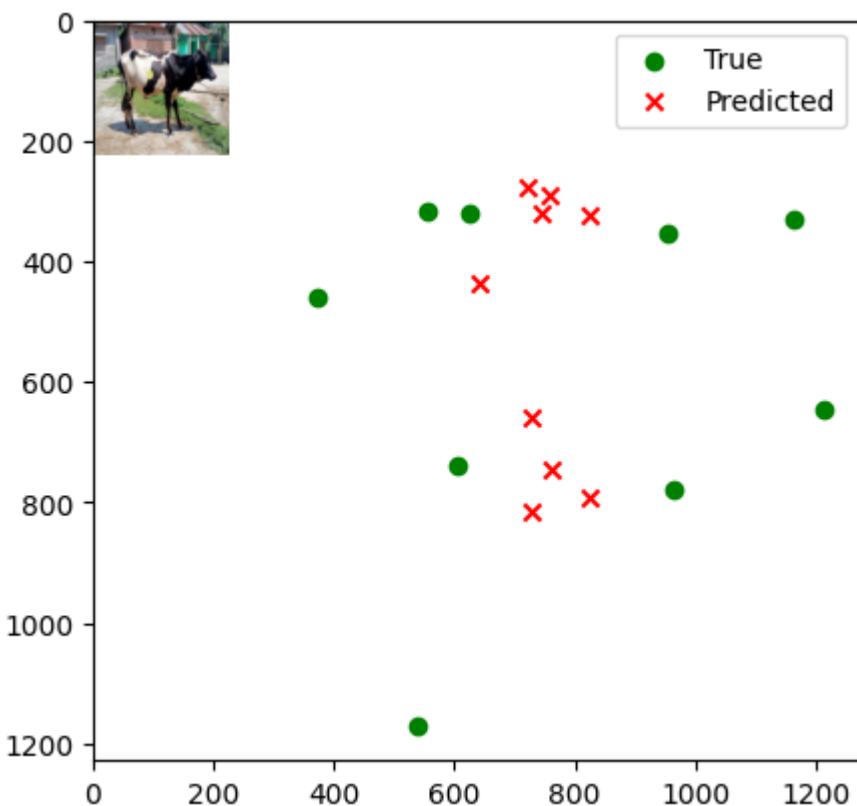


Image number: 43

True keypoints: [752. 271. 1795. 442. 729. 645. 967. 287. 964. 816. 145
4. 291.

1443. 779. 1551. 278. 1537. 1299.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[790.6093 342.6223]

[682.9781 463.99765]

[772.26825 698.74286]

[876.78766 345.0719]

[877.80695 840.43555]

[807.9821 311.00284]

[811.2439 792.9036]

[770.10046 298.49454]

[774.73663 867.55225]]

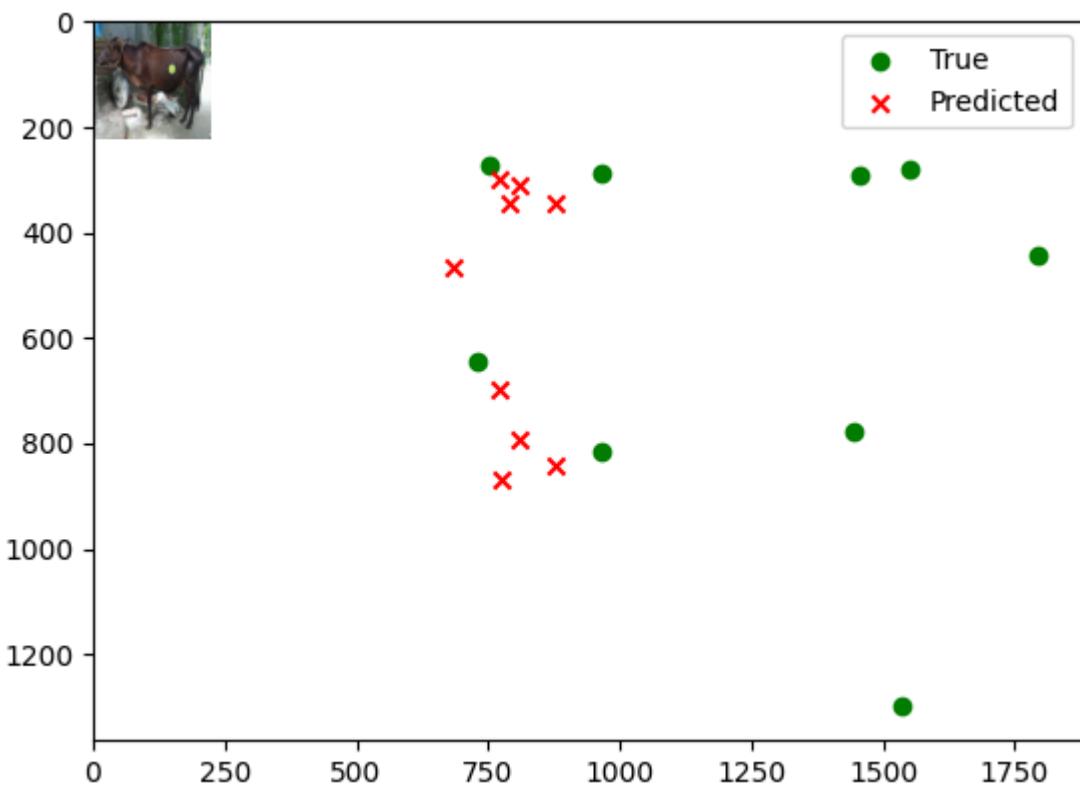


Image number: 44

True keypoints: [725. 347. 1763. 479. 662. 700. 900. 365. 927. 873. 142
4. 306.

1432. 803. 1528. 293. 1571. 1337.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[831.734 363.85513]

[721.08014 489.72543]

[812.0993 735.5218]

[924.56903 366.2322]

[925.72375 885.5029]

[852.7269 332.176]

[856.2435 835.2853]

[813.2378 319.56567]

[817.6998 914.80005]]

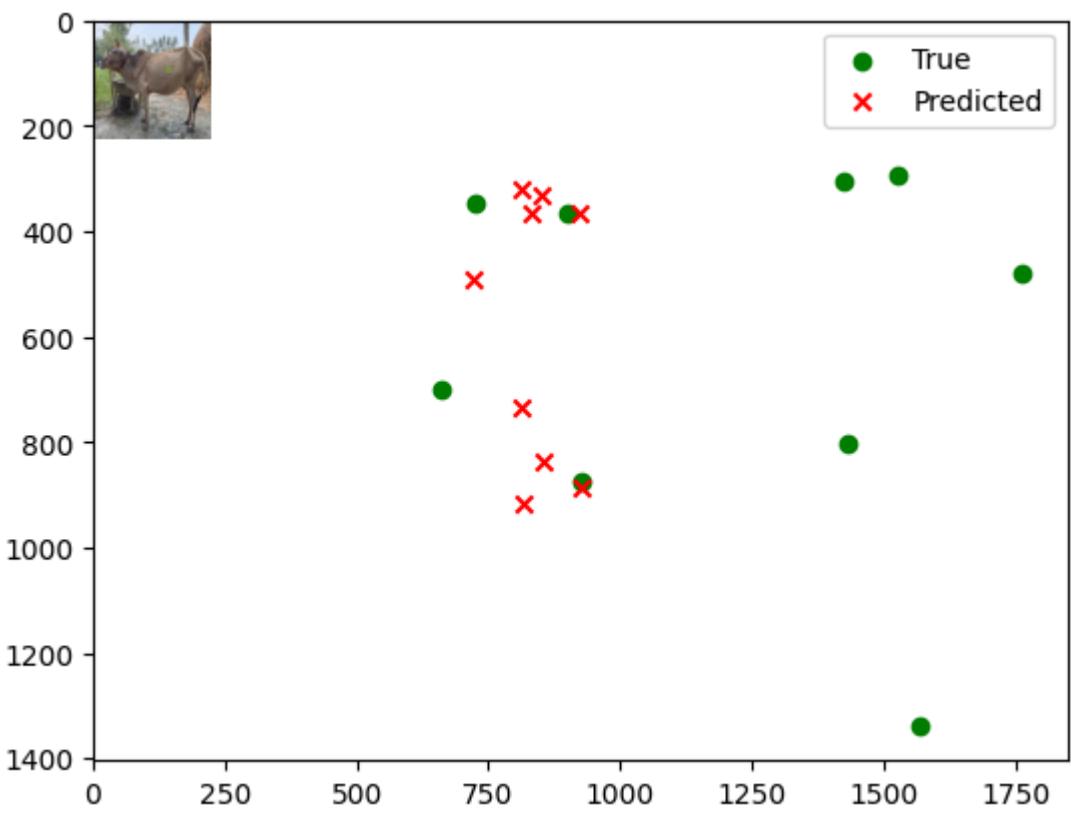


Image number: 45

True keypoints: [704. 226. 1694. 436. 654. 551. 891. 235. 892. 741. 138
6. 221.

1385. 705. 1492. 225. 1509. 1273.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[770.62897 332.63983]

[664.3936 451.63052]

[752.89276 680.94745]

[853.6345 335.04706]

[854.64575 818.6185]

[786.31226 301.1005]

[789.4586 772.38074]

[749.1997 288.66995]

[753.8764 844.6666]]

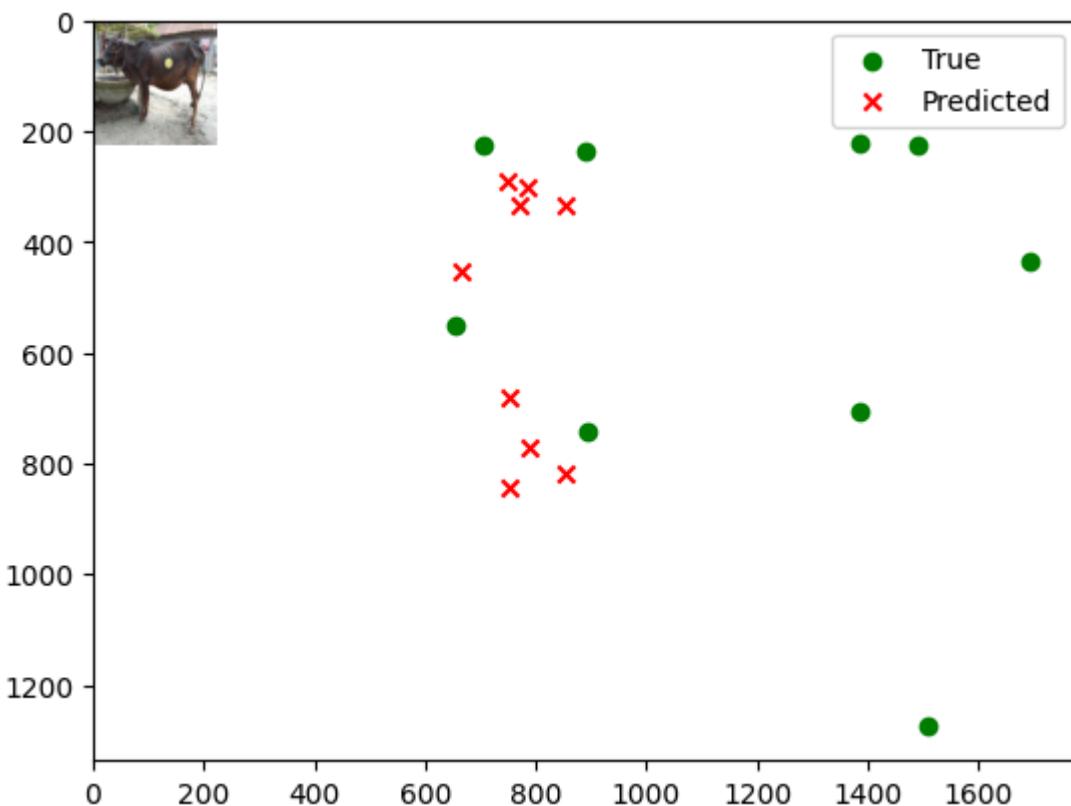


Image number: 46

True keypoints: [1290. 304. 229. 429. 1281. 608. 1059. 279. 1051. 760. 59
0. 235.

606. 750. 463. 206. 480. 1212.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[742.6046 319.78912]

[637.79504 434.86957]

[725.77625 656.4056]

[821.369 321.93378]

[822.42883 788.1488]

[755.88245 288.45755]

[758.9551 743.90436]

[719.79395 276.21017]

[724.3951 812.72095]]

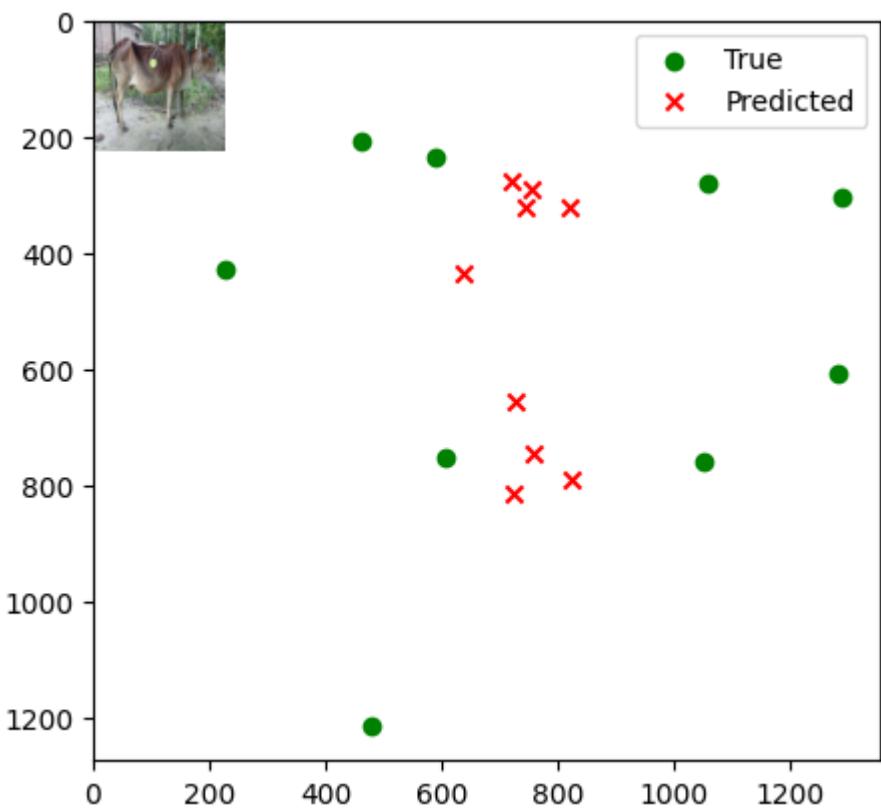


Image number: 47

True keypoints: [712. 262. 1814. 379. 707. 614. 955. 253. 969. 756. 143

9. 234.

1439. 698. 1559. 228. 1571. 1322.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[751.65106 323.80804]

[647.2654 440.23584]

[734.46234 664.12994]

[832.1026 326.16342]

[833.2055 798.1885]

[766.2979 292.7383]

[769.4035 753.1151]

[730.0453 280.4782]

[734.59753 823.37604]]

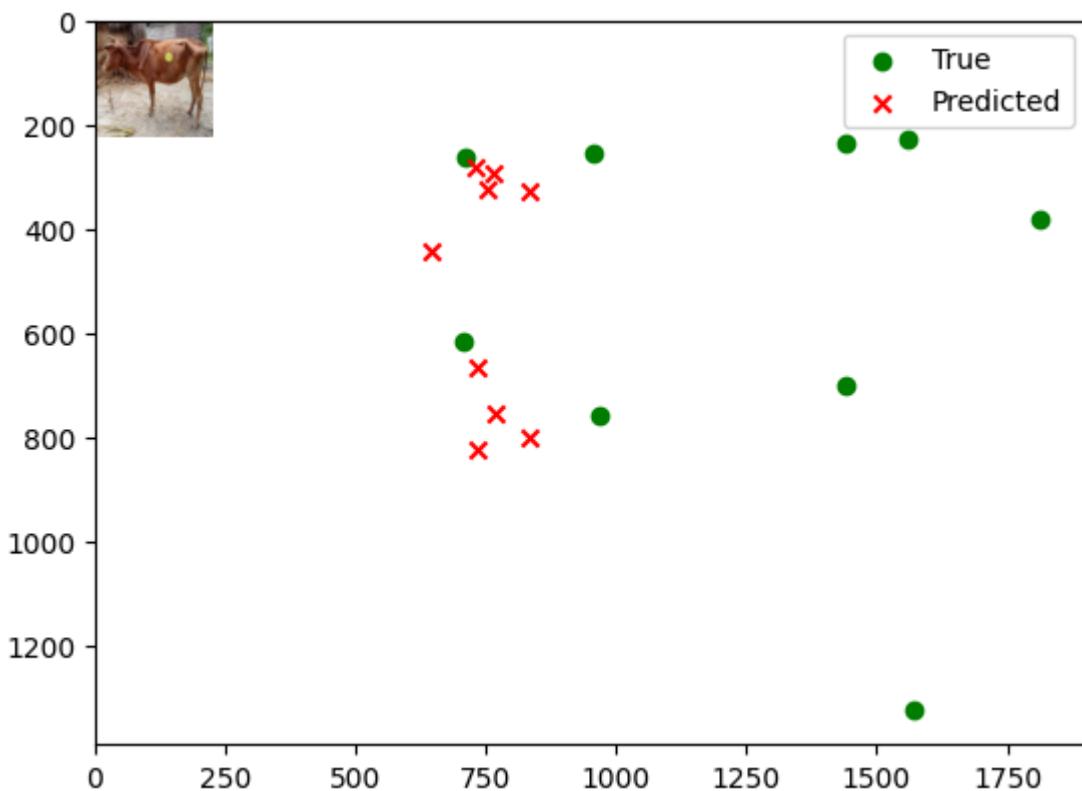


Image number: 48

True keypoints: [821. 275. 1808. 314. 803. 581. 1016. 259. 1038. 741. 147
0. 224.

1478. 697. 1573. 209. 1578. 1286.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[760.6342 328.34763]

[655.49316 445.81714]

[743.1691 672.16113]

[842.4949 330.70328]

[843.6244 807.98035]

[776.01404 297.22043]

[779.18146 762.3625]

[739.3811 284.94757]

[743.91223 833.6342]]

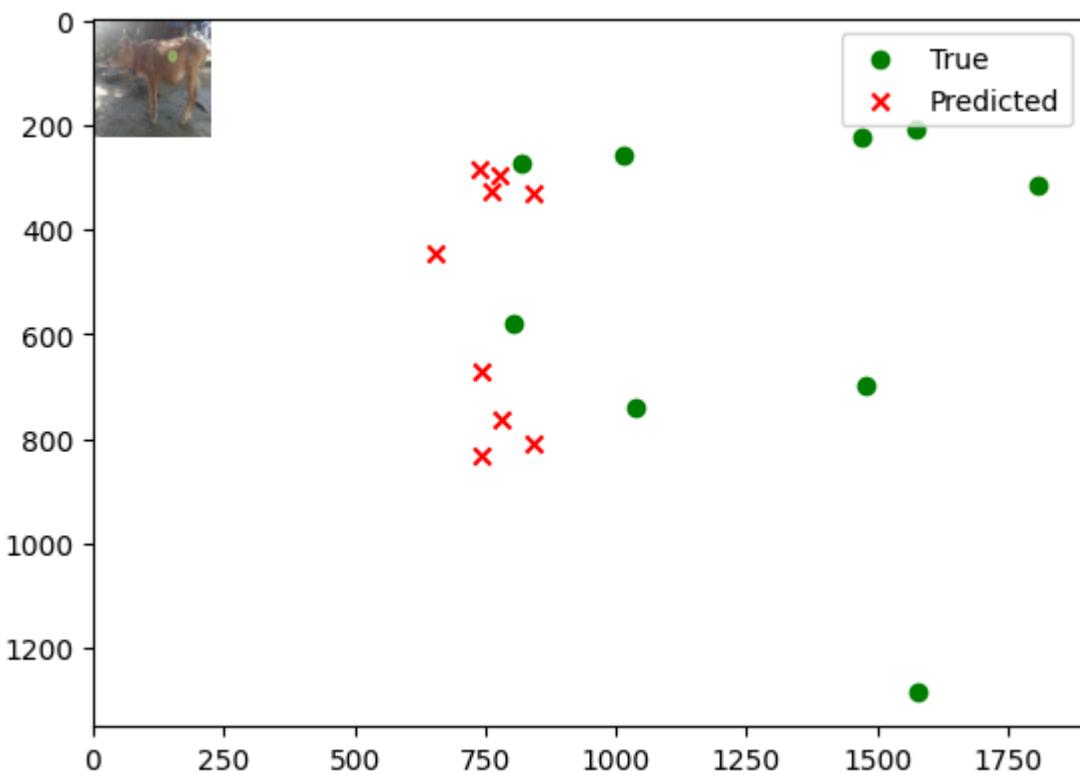


Image number: 49

True keypoints: [713. 314. 1760. 359. 648. 609. 930. 324. 948. 796. 1403. 277.

1410. 757. 1525. 253. 1590. 1264.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[794.87964 344.0417]

[686.2853 466.26196]

[776.4675 702.4401]

[881.1949 346.51193]

[882.2318 844.7978]

[811.9709 312.0197]

[815.1914 797.03436]

[773.81067 299.40363]

[778.553 871.95435]]

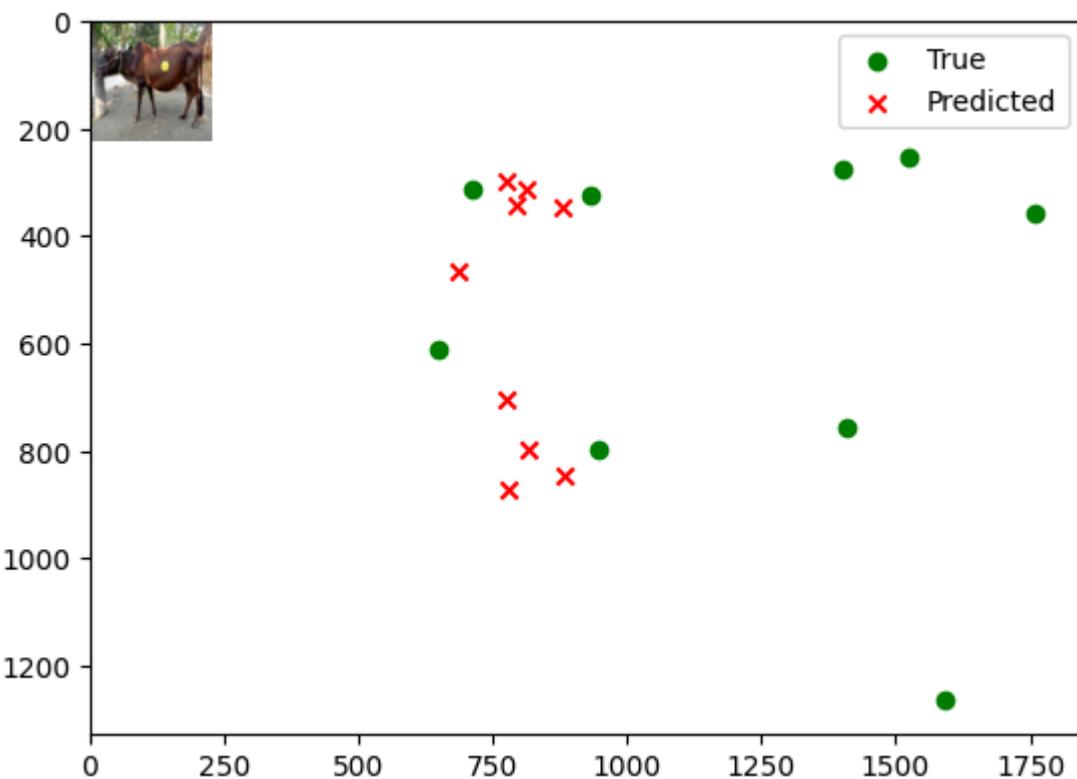


Image number: 50

True keypoints: [1189. 320. 199. 402. 1240. 684. 1022. 306. 1026. 808. 51
4. 233.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[683.1255 293.51926]

[575.5587 400.10693]

[668.7926 605.7744]

[750.98627 294.28482]

[752.1181 722.28265]

[687.57025 260.71997]

[690.7282 683.6146]

[652.7514 248.65808]

[657.23364 742.66376]]

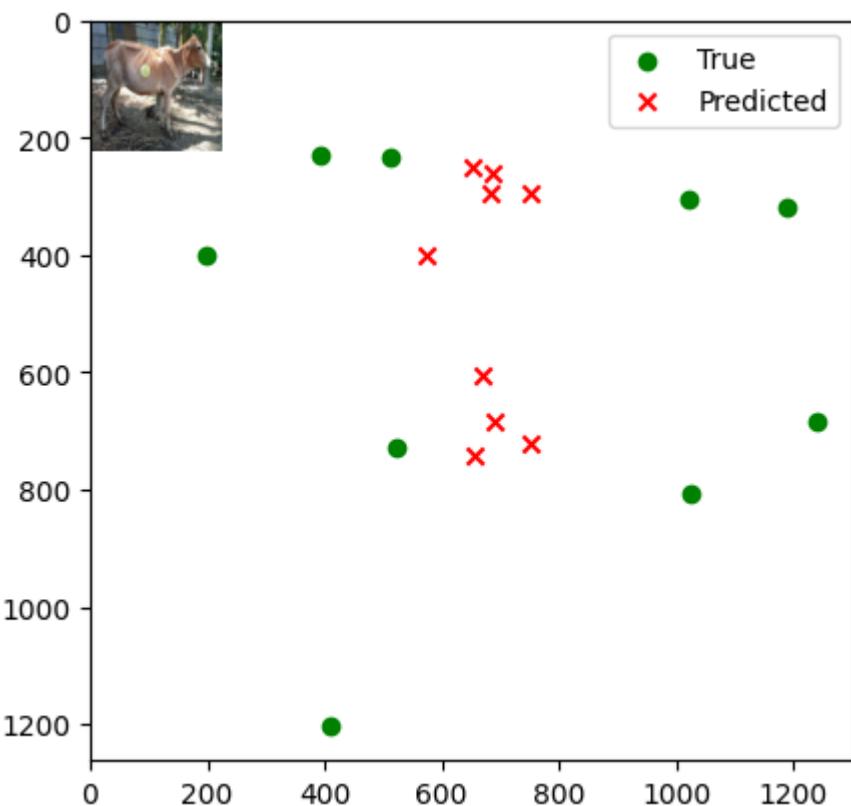


Image number: 51

True keypoints: [1206. 219. 153. 293. 1259. 589. 1010. 228. 1016. 769. 50 0. 159.

520. 716. 399. 143. 441. 1283.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[730.7565 314.78275]

[628.53253 428.01892]

[714.1138 645.7674]

[808.6978 317.01443]

[809.8748 775.8458]

[744.5298 284.3695]

[747.6506 732.1051]

[709.223 272.40115]

[713.5943 800.1775]]

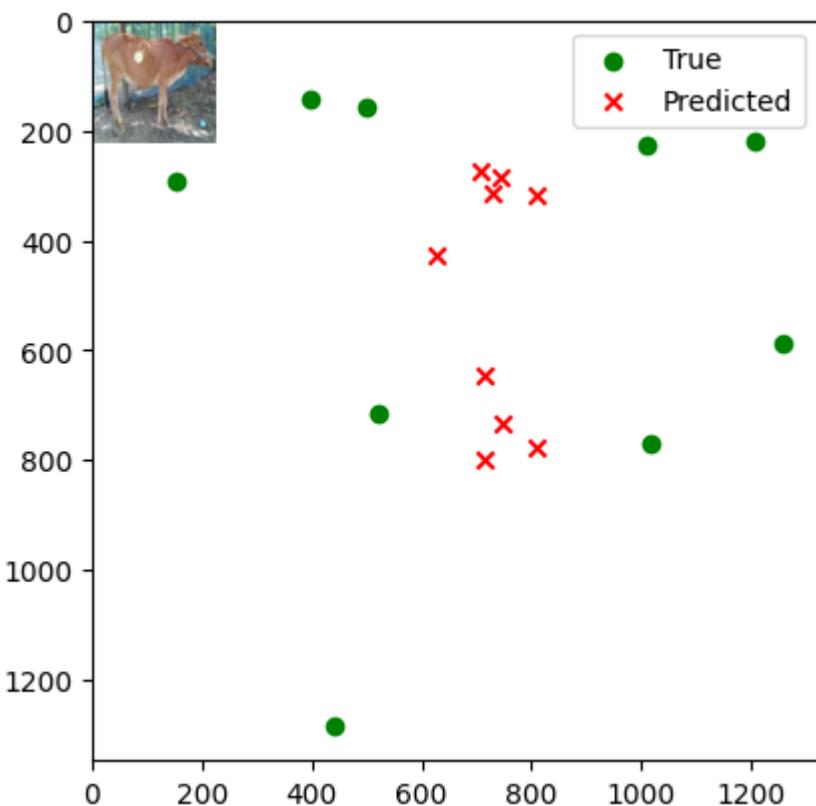


Image number: 52

True keypoints: [756. 336. 1694. 399. 749. 646. 956. 346. 965. 790. 139 0. 305.

1402. 762. 1487. 293. 1511. 1216.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[794.7516 344.5673]

[686.1503 466.4308]

[776.2884 702.42334]

[881.2174 346.97015]

[882.399 844.80994]

[812.07 312.7532]

[815.32324 797.02985]

[773.90857 300.17935]

[778.5673 872.0071]]

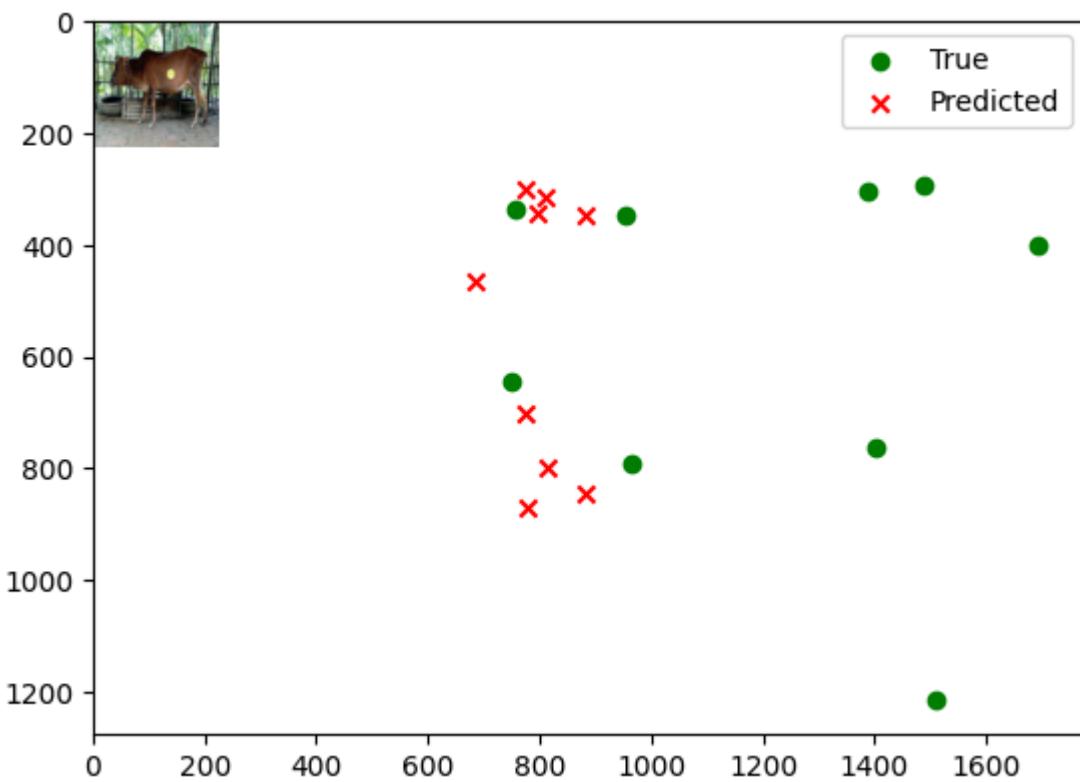


Image number: 53

True keypoints: [730. 256. 1665. 345. 756. 574. 946. 236. 963. 691. 137
0. 191.

1384. 630. 1472. 178. 1501. 1181.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[772.4059 333.43497]

[665.9767 452.67682]

[754.6462 682.52466]

[855.62805 335.85983]

[856.62897 820.5121]

[788.14795 301.85843]

[791.30457 774.18896]

[750.991 289.41257]

[755.66095 846.6605]]

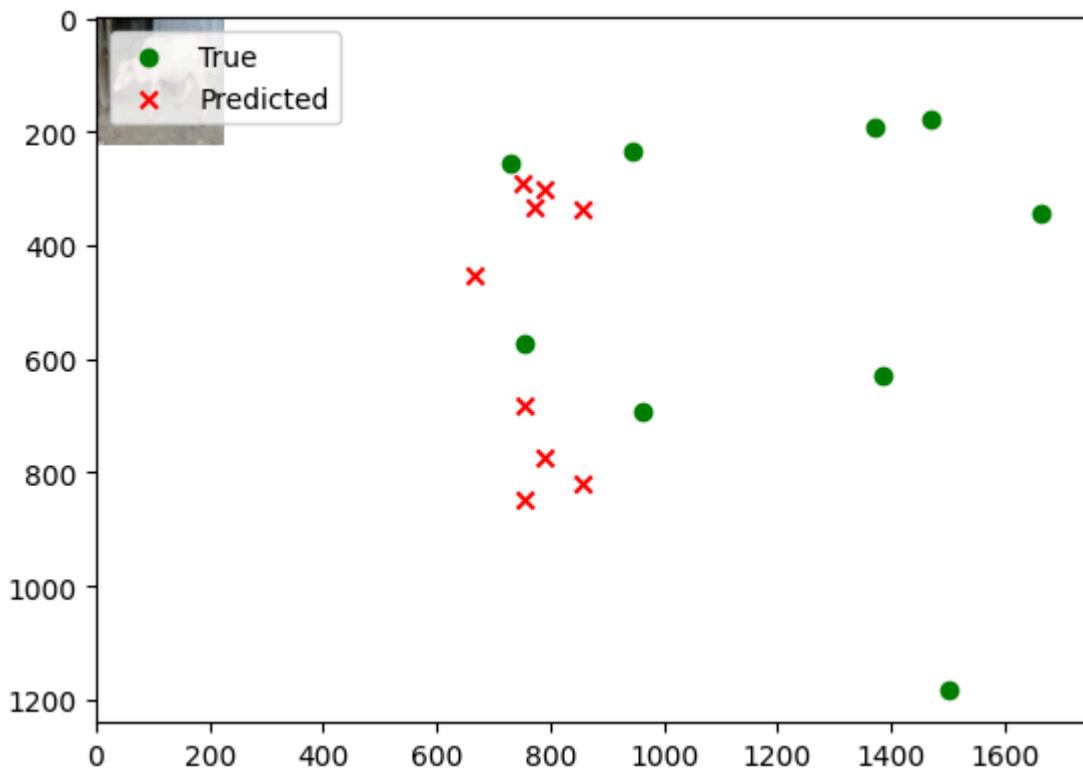


Image number: 54

True keypoints: [633. 406. 1505. 525. 561. 707. 812. 401. 829. 857. 126
3. 365.

1256. 763. 1330. 356. 1305. 1229.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[867.41595 381.9037]
[754.41077 511.97943]
[846.68945 767.3532]
[966.06616 384.36462]
[967.26245 924.5499]
[891.60187 350.20593]
[895.3401 872.0448]
[850.751 337.46106]
[855.0986 955.83356]]

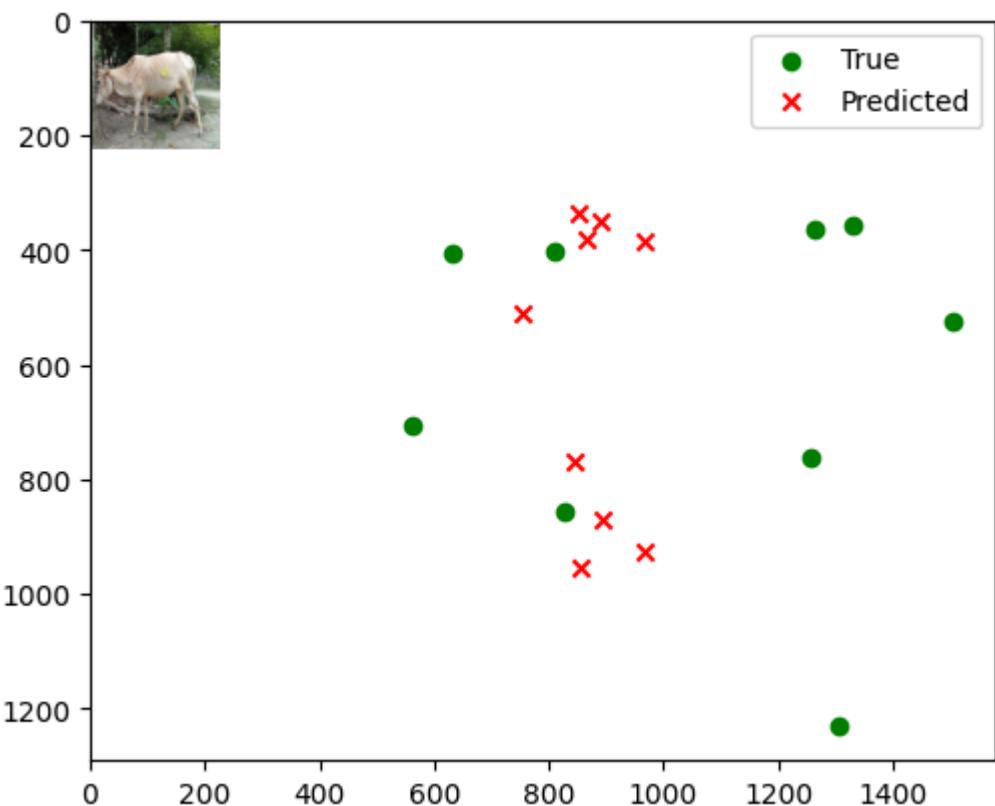


Image number: 55

True keypoints: [1142. 322. 140. 403. 1163. 710. 930. 339. 911. 841. 47
0. 261.

464. 760. 350. 244. 339. 1264.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[796.51276 346.06345]

[688.6019 467.88205]

[777.96423 704.09546]

[883.84705 348.46237]

[884.9697 847.0596]

[814.6494 314.59528]

[817.9807 799.0991]

[776.567 302.11826]

[781.11053 874.52893]]

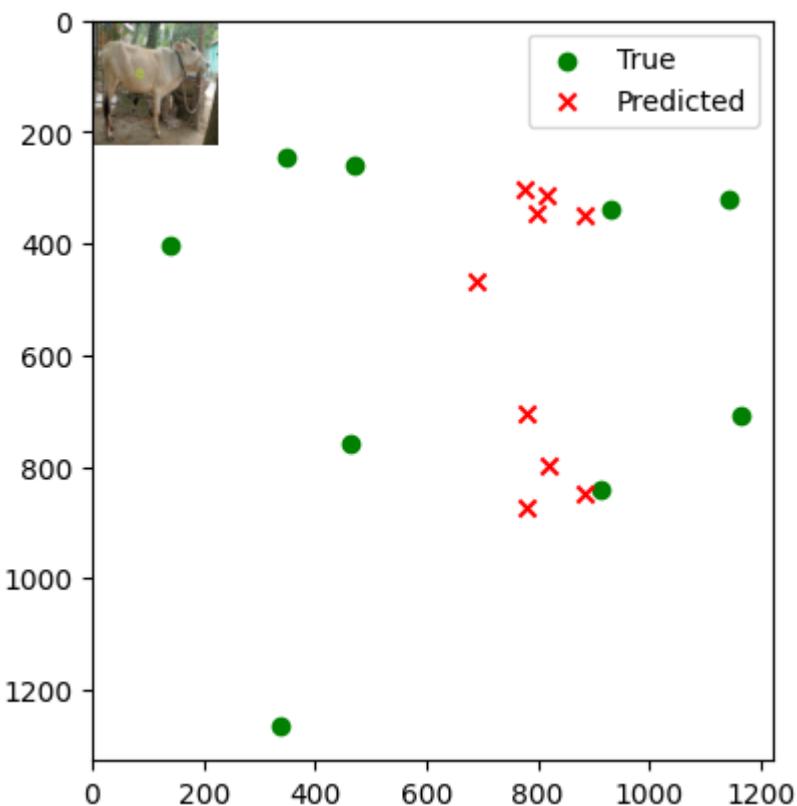


Image number: 56

True keypoints: [686. 416. 1554. 451. 667. 682. 869. 421. 887. 831. 126

8. 371.

1288. 802. 1376. 348. 1405. 1205.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[816.2313 355.81137]

[706.6829 480.0059]

[797.06354 721.64703]

[906.4935 358.21362]

[907.6228 868.5143]

[835.819 324.13504]

[839.2162 819.2816]

[796.91956 311.55762]

[801.4761 896.9679]]

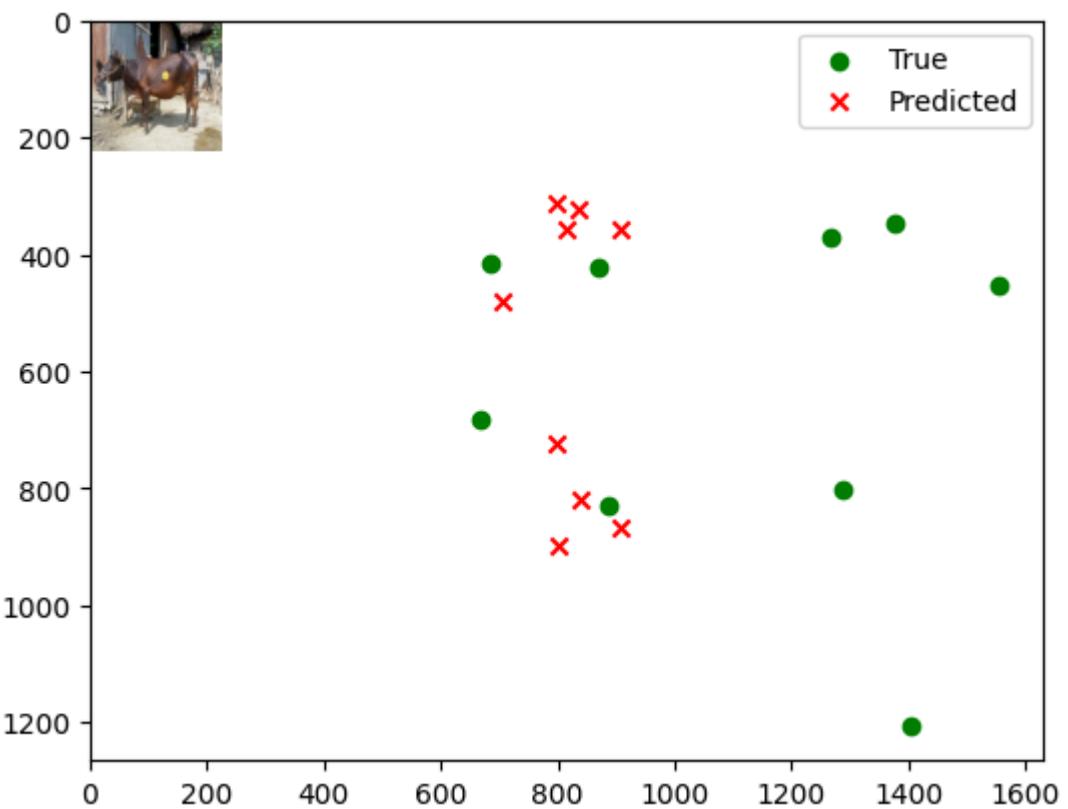


Image number: 57

True keypoints: [707. 249. 1715. 339. 635. 595. 884. 266. 902. 766. 136
8. 222.

1387. 697. 1497. 197. 1525. 1263.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[713.8255 305.9363]

[611.5665 417.35434]

[697.8434 630.8409]

[788.432 308.0101]

[789.4715 756.9424]

[725.12823 274.9945]

[728.09595 714.5517]

[690.27325 262.94525]

[694.82043 780.1364]]

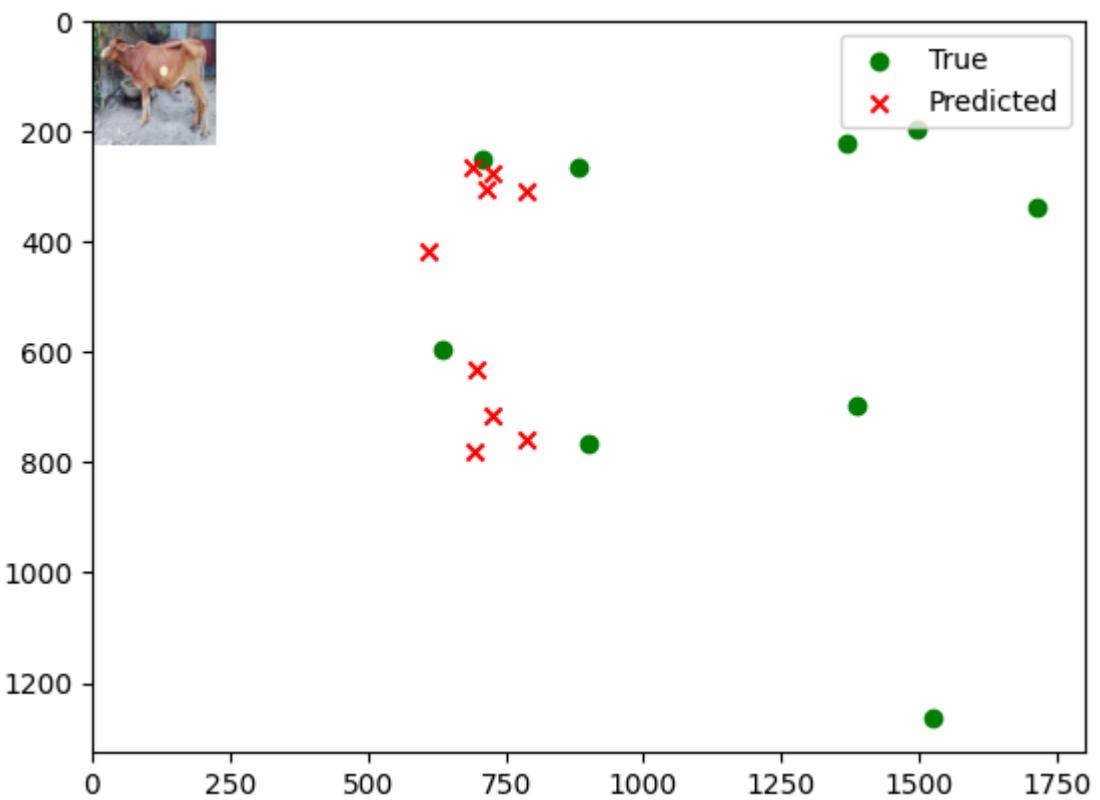


Image number: 58

True keypoints: [1184. 325. 168. 395. 1156. 637. 931. 277. 914. 772. 464. 224.]

481. 725. 388. 216. 393. 1185.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[762.0484 329.7561]]

[655.4154 447.0681]

[744.7018 673.9034]

[843.7884 331.85815]

[844.8647 809.3162]

[776.6495 298.21094]

[779.8859 763.93854]

[739.7745 285.88275]

[744.33386 834.8444]

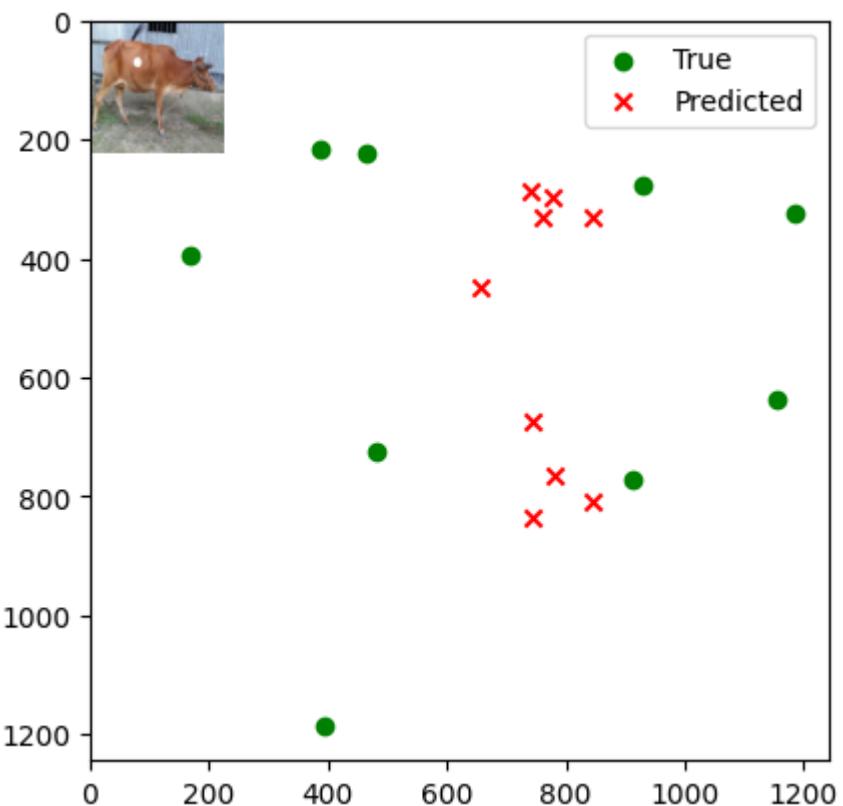


Image number: 59

True keypoints: [1292. 331. 205. 398. 1322. 635. 1066. 319. 1050. 815. 52. 2. 273.

522. 708. 440. 259. 430. 1280.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[784.34717 340.4612]

[677.49554 460.59613]

[766.11334 693.3173]

[870.0015 342.79987]

[871.1908 833.9419]

[801.7801 309.25146]

[805.0642 786.7508]

[764.2005 296.89774]

[768.6775 860.84326]]

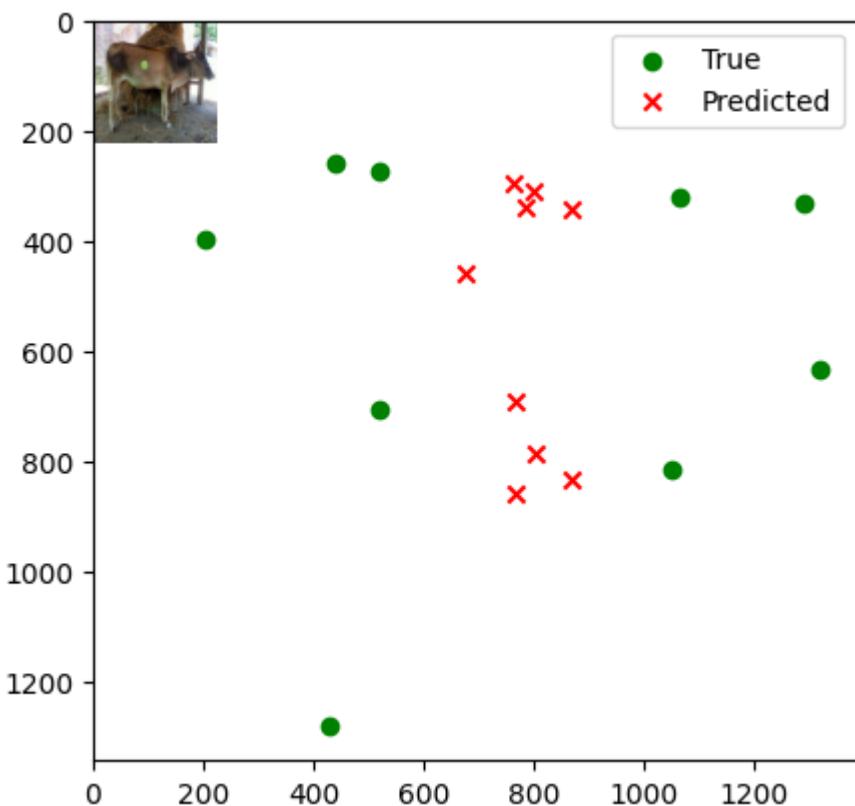


Image number: 60

True keypoints: [1159. 276. 366. 305. 1161. 576. 961. 286. 962. 694. 59
4. 246.

606. 655. 505. 240. 538. 1068.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[714.4501 306.92963]

[608.3102 418.15475]

[698.8375 632.3392]

[787.88055 308.46594]

[788.8719 756.8361]

[723.3561 274.72653]

[726.41205 715.24774]

[687.8772 262.54208]

[692.5176 779.4208]]

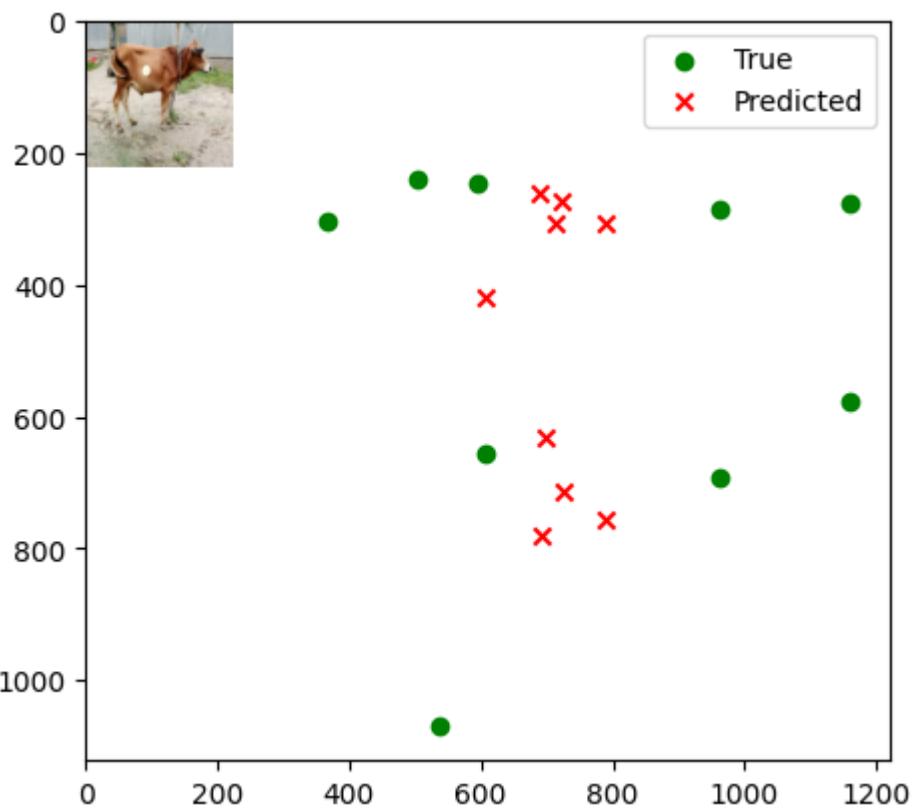


Image number: 61

True keypoints: [688. 396. 1727. 477. 712. 644. 922. 355. 944. 813. 137
1. 336.

1368. 796. 1507. 315. 1494. 1263.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[810.1138 352.70062]

[700.24976 476.178]

[791.23334 716.31396]

[899.073 354.99603]

[900.16864 861.62305]

[828.6172 320.74255]

[831.9832 812.9454]

[789.85315 308.14893]

[794.4486 889.61206]]

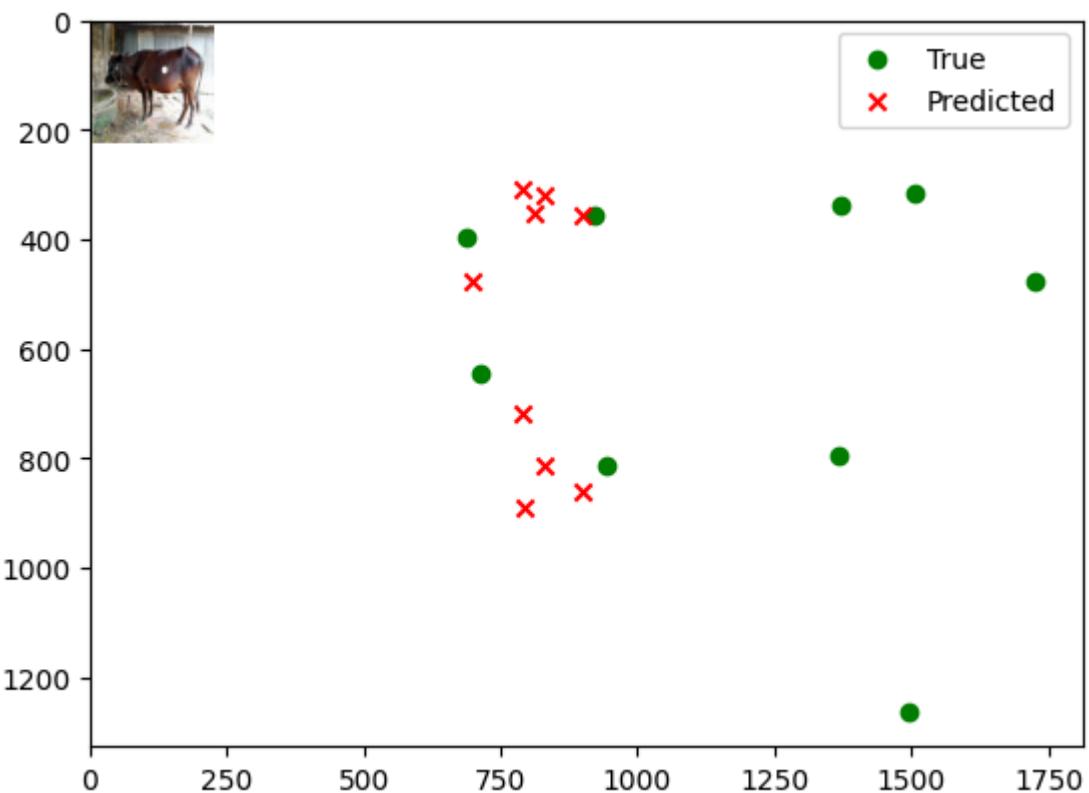


Image number: 62

True keypoints: [734. 192. 1761. 303. 720. 534. 957. 185. 971. 672. 139
3. 157.

1403. 636. 1504. 146. 1516. 1150.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[727.38196 311.83432]

[624.6072 425.2976]

[710.9463 642.5853]

[804.0136 314.105]

[805.03 771.6747]

[739.9119 280.8158]

[742.8977 728.23267]

[704.5817 268.65433]

[709.18994 795.5846]]

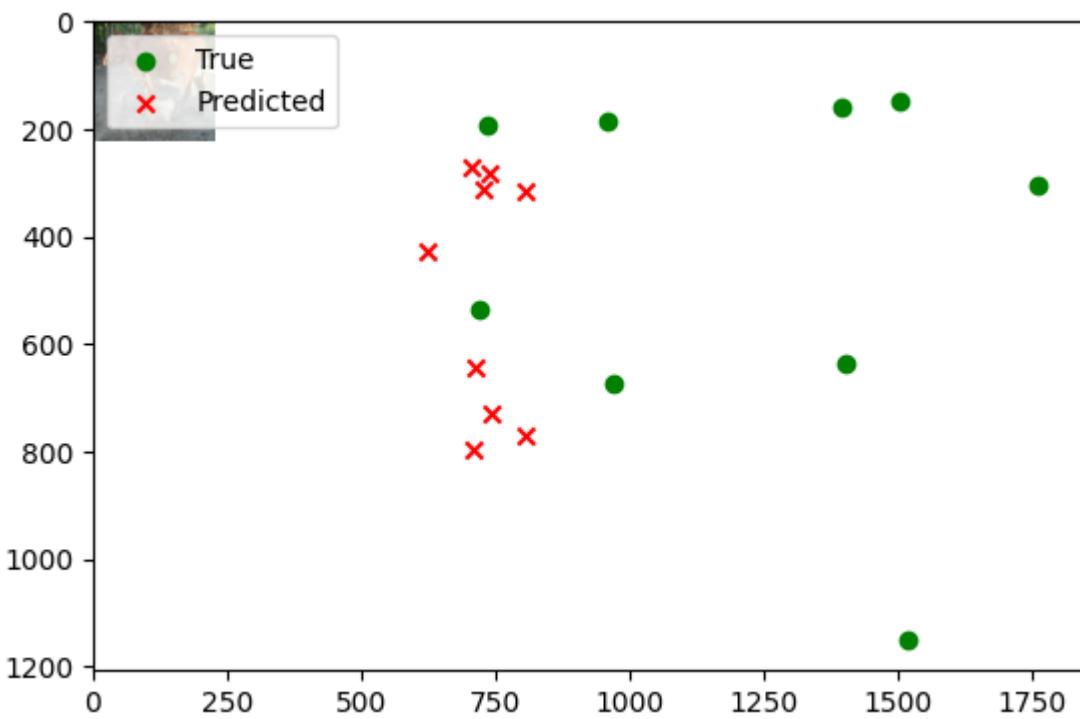


Image number: 63

True keypoints: [714. 361. 1690. 521. 635. 685. 866. 374. 875. 876. 135
6. 346.

1361. 831. 1472. 337. 1484. 1280.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[807.7622 351.41943]

[698.6086 474.69672]

[788.8919 714.09204]

[896.5702 353.80386]

[897.7009 859.1851]

[826.4815 319.6975]

[829.83374 810.5215]

[787.86707 307.10583]

[792.45746 887.1367]]

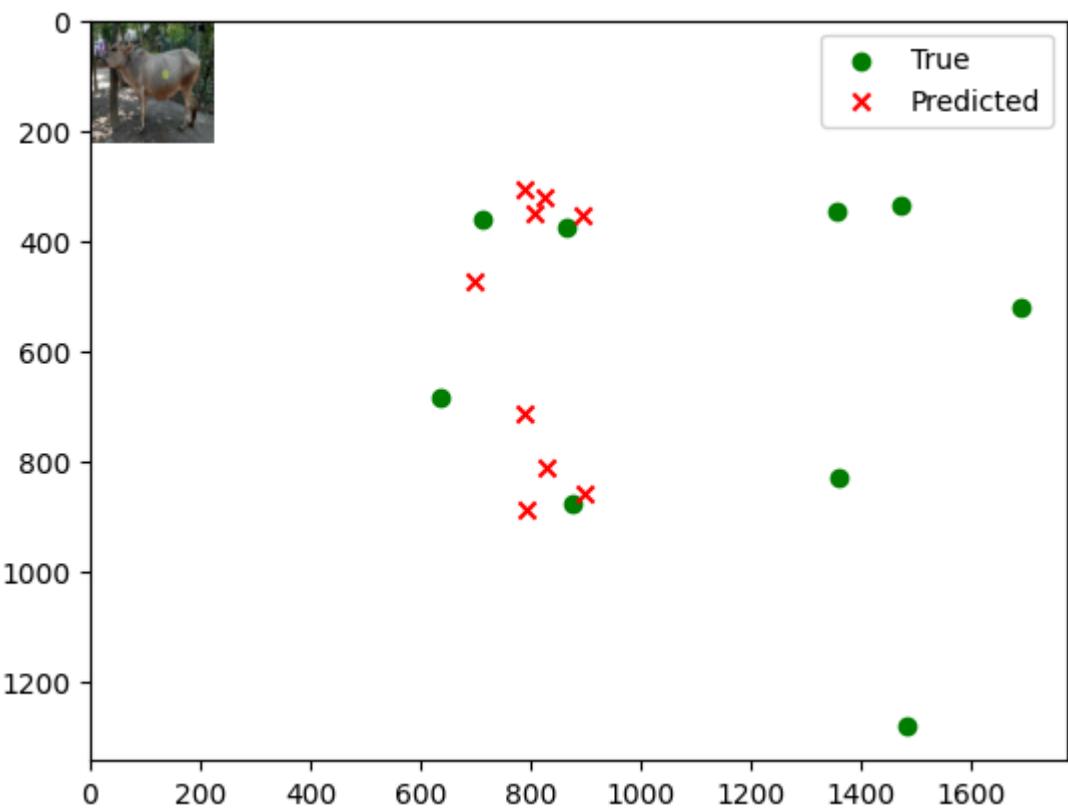


Image number: 64

True keypoints: [719. 249. 1612. 344. 654. 600. 867. 261. 887. 742. 132
9. 208.

1355. 651. 1404. 206. 1461. 1185.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[758.92914 327.65765]

[654.21906 444.82056]

[741.495 670.6406]

[840.68616 330.01007]

[841.7716 806.2313]

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[777.5199 760.65295]

[737.8522 284.3666]

[742.3933 831.8396]]

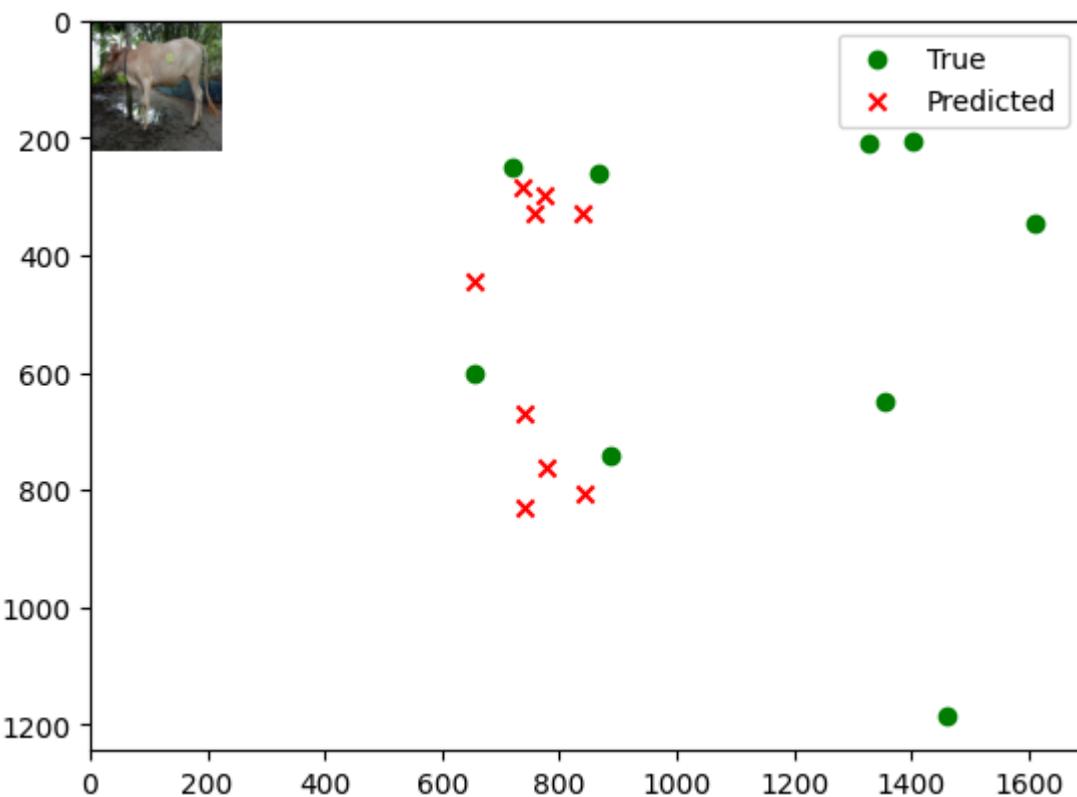


Image number: 65

True keypoints: [744. 310. 1701. 416. 751. 638. 958. 309. 990. 755. 139
4. 285.

1407. 694. 1474. 273. 1489. 1196.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[807.4397 351.37555]

[698.72534 474.56958]

[788.57007 713.7996]

[896.4319 353.7999]

[897.4957 858.9214]

[826.3862 319.77774]

[829.76514 810.2856]

[787.86475 307.24576]

[792.4303 886.94507]]

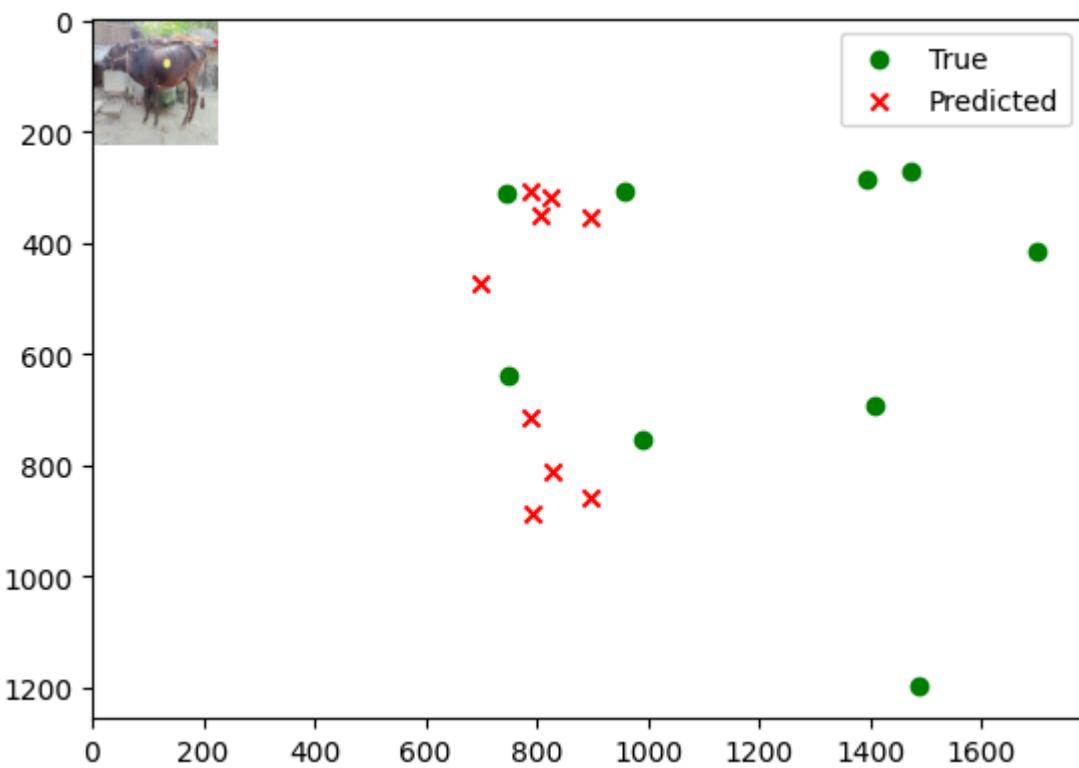


Image number: 66

True keypoints: [1195. 354. 288. 439. 1225. 658. 965. 391. 964. 814. 56
0. 351.

565. 776. 512. 354. 523. 1188.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[832.24915 364.3334]
[721.9352 490.18192]
[812.56946 735.9912]
[925.4078 366.74884]
[926.6051 886.2193]
[853.6225 332.89215]
[857.1808 835.8994]
[814.1857 320.29968]
[818.593 915.6258]]

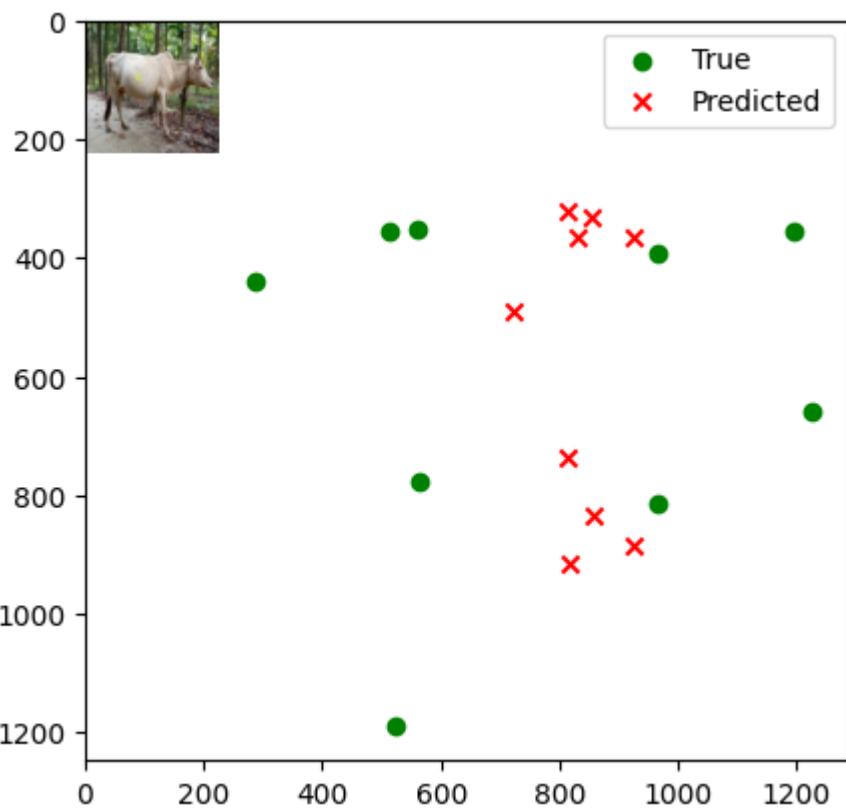


Image number: 67

True keypoints: [1186. 212. 148. 314. 1252. 558. 996. 220. 1009. 745. 48. 3. 189.

492. 679. 403. 181. 423. 1209.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[665.814 285.1488]

[562.6886 389.4201]

[651.67957 589.8117]

[732.3076 286.21915]

[733.3675 704.18097]

[671.00476 253.56183]

[674.0641 666.02356]

[637.42664 241.81927]

[641.84357 724.3054]]

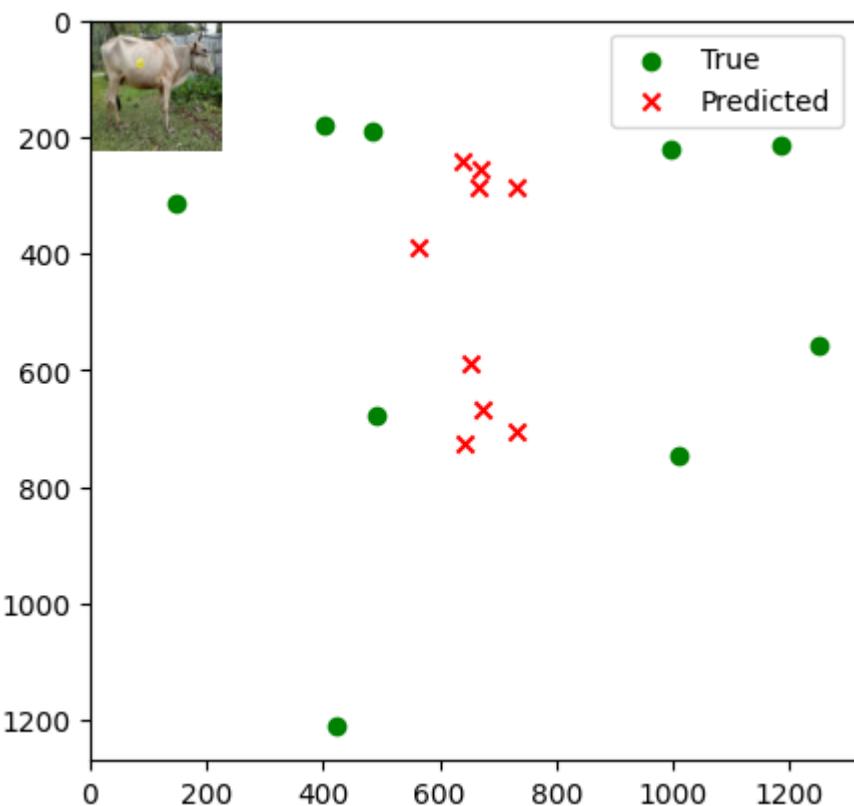


Image number: 68

True keypoints: [790. 272. 1763. 344. 748. 598. 974. 294. 997. 756. 146
2. 227.

1472. 664. 1555. 213. 1588. 1162.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[763.1599 329.35632]

[657.71643 447.22986]

[745.60614 674.3444]

[845.2564 331.72858]

[846.3589 810.64935]

[778.5745 298.09912]

[781.7105 764.8409]

[741.80615 285.77206]

[746.4061 836.37476]]

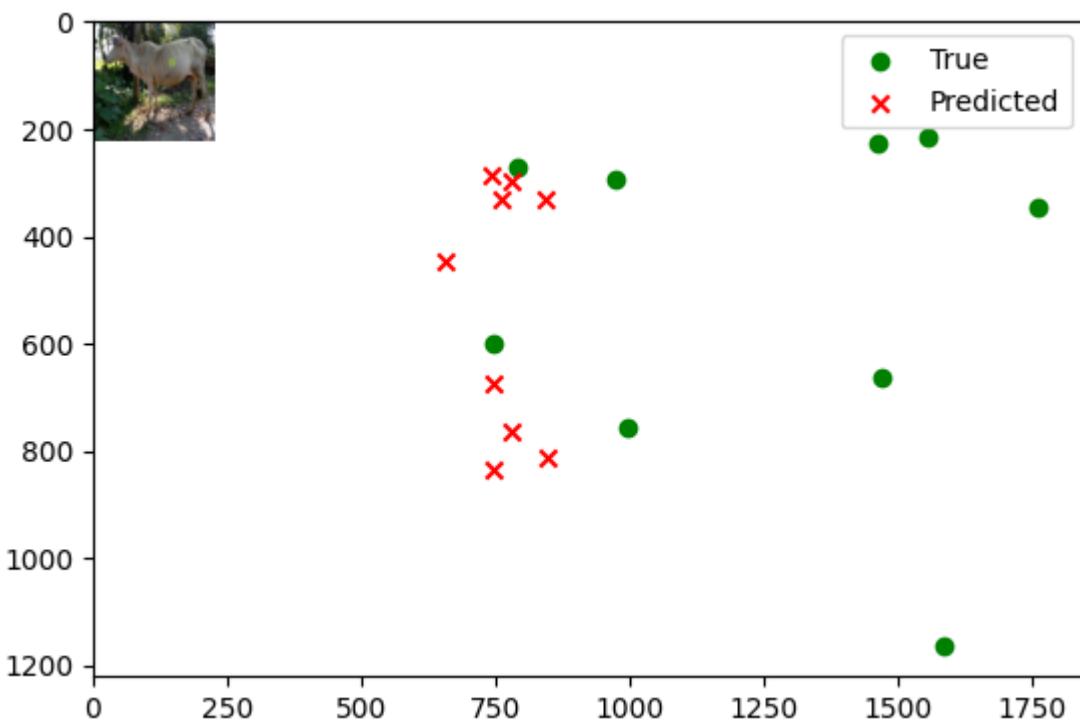


Image number: 69

True keypoints: [703. 305. 1619. 436. 698. 614. 882. 305. 901. 764. 133
0. 297.
1342. 753. 1404. 282. 1422. 1188.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[799.99695 347.52414]

[691.61505 469.8834]

[781.33997 707.1392]

[887.6738 349.9279]

[888.7911 850.74664]

[818.2022 315.91086]

[821.5209 802.5547]

[779.93066 303.38138]

[784.5228 878.32043]]

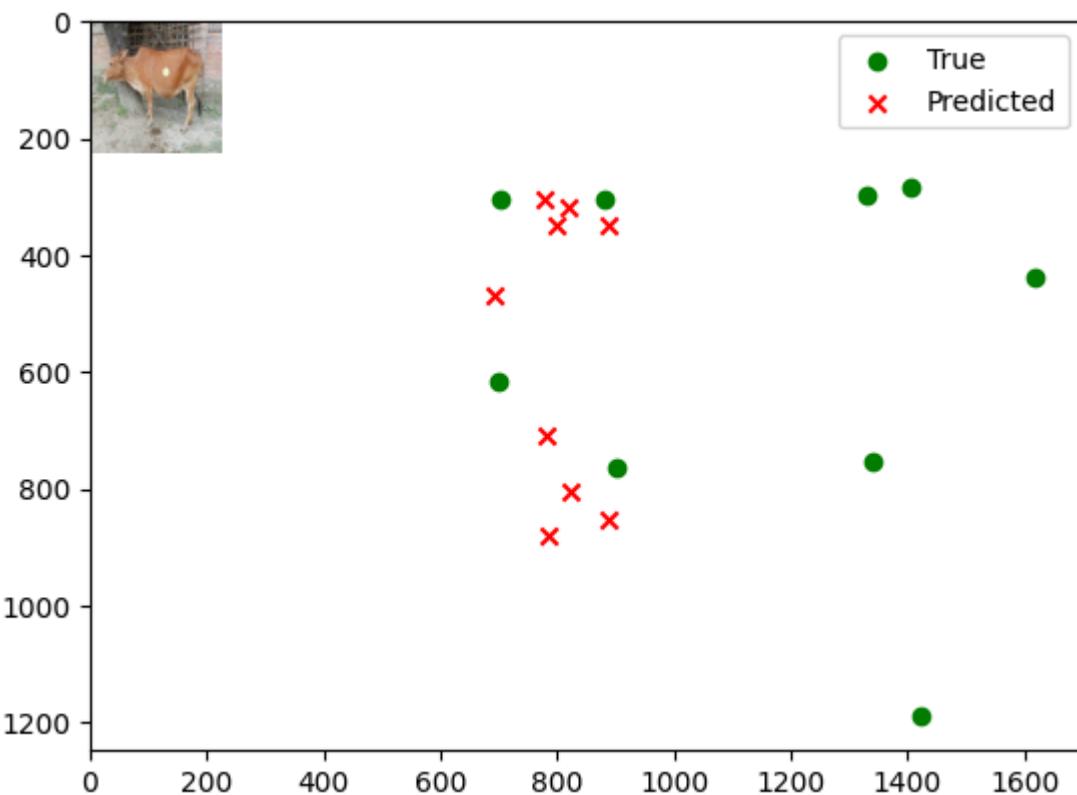


Image number: 70

True keypoints: [1231. 267. 346. 408. 1266. 593. 1035. 303. 1041. 735. 64. 4. 274.]

649. 709. 551. 262. 578. 1281.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[775.2943 335.36392]

[668.9335 454.69986]

[757.37646 685.1476]

[859.24524 337.74277]

[860.3308 823.86487]

[791.6396 303.9788]

[794.84064 777.26764]

[754.3822 291.57584]

[758.9927 850.21277]]

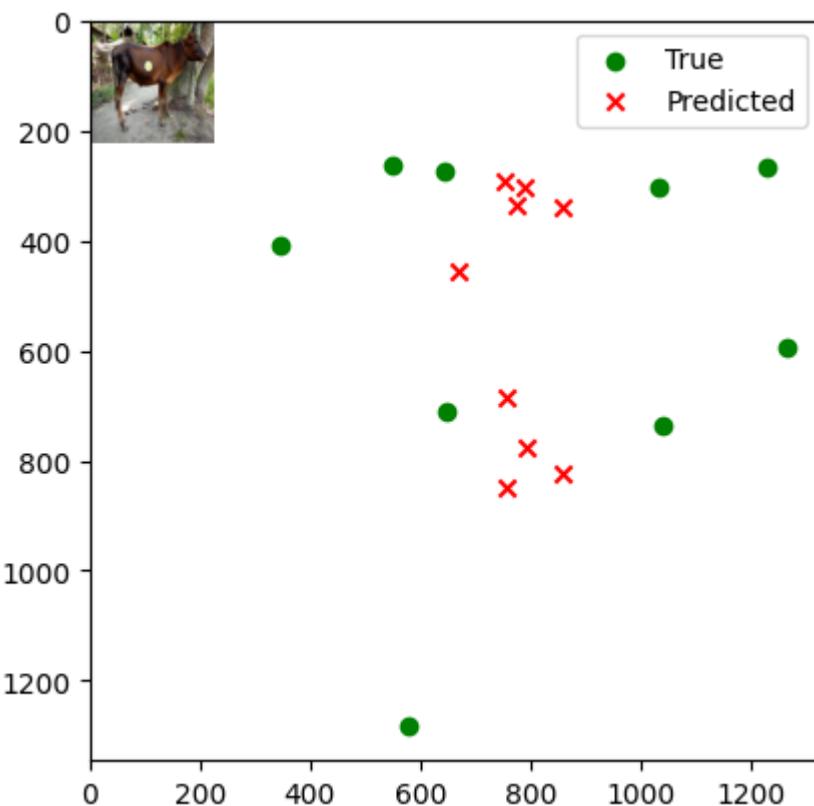


Image number: 71

True keypoints: [1154. 305. 294. 373. 1183. 601. 956. 316. 965. 750. 57
7. 263.

584. 717. 474. 245. 496. 1269.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[744.631 321.79462]

[636.8809 436.70618]

[727.9958 658.9835]

[822.9613 323.47894]

[824.1494 789.9623]

[756.4929 289.7125]

[759.6874 746.14606]

[719.8789 277.42035]

[724.4164 814.14417]]

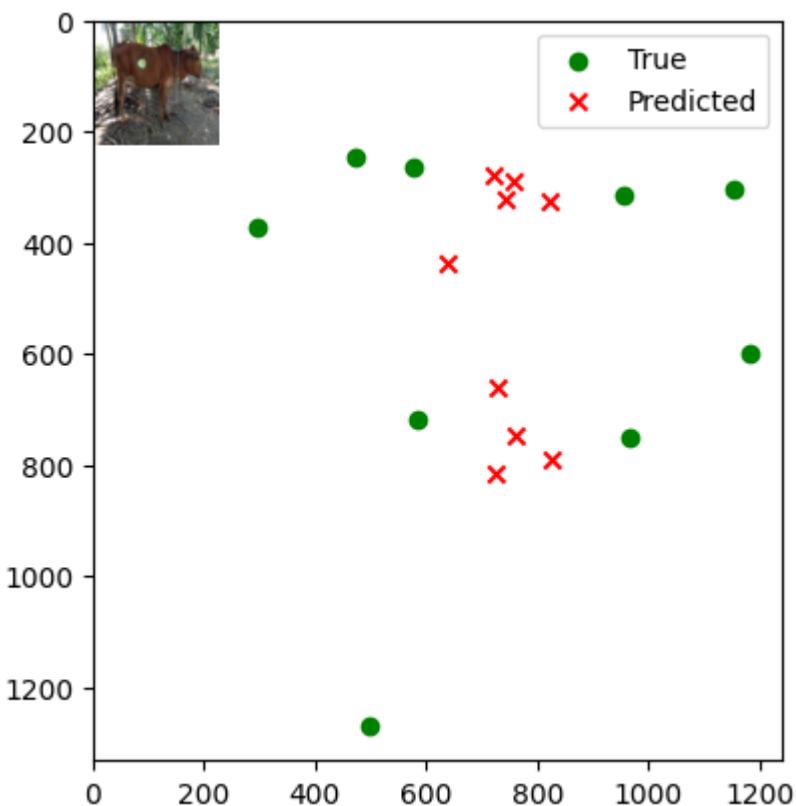


Image number: 72

True keypoints: [710. 298. 1567. 427. 623. 595. 839. 304. 841. 755. 127
9. 296.

1287. 702. 1356. 284. 1376. 1188.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[807.897 352.47864]

[699.3081 475.2838]

[788.9499 714.37067]

[897.3193 354.82208]

[898.56995 859.70685]

[827.32556 321.21805]

[830.7716 810.9769]

[788.84186 308.79443]

[793.2426 887.83545]]

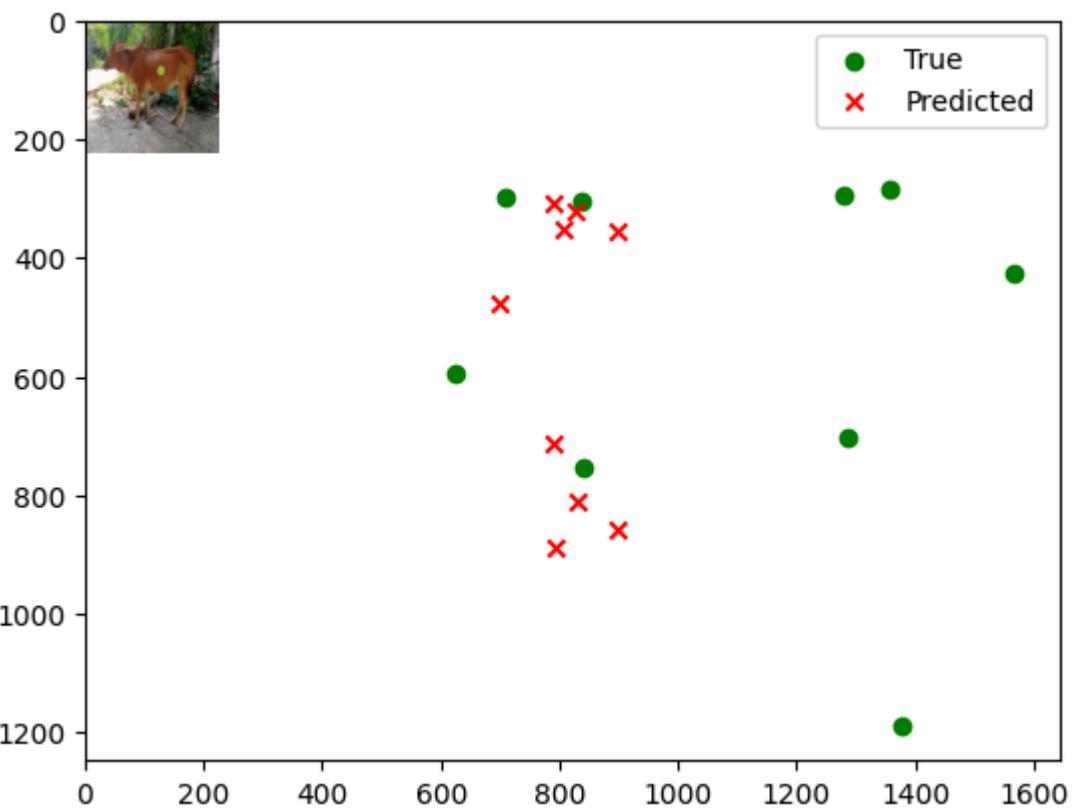


Image number: 73

True keypoints: [731. 448. 1547. 492. 678. 751. 897. 456. 922. 884. 1302. 401.

1294. 806. 1355. 394. 1368. 1302.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[859.7875 378.05063]

[747.2319 507.20575]

[839.2844 760.54004]

[957.15405 380.47433]

[958.3572 916.18555]

[883.2401 346.31433]

[886.93335 864.18665]

[842.6707 333.59174]

[847.05304 947.02954]]

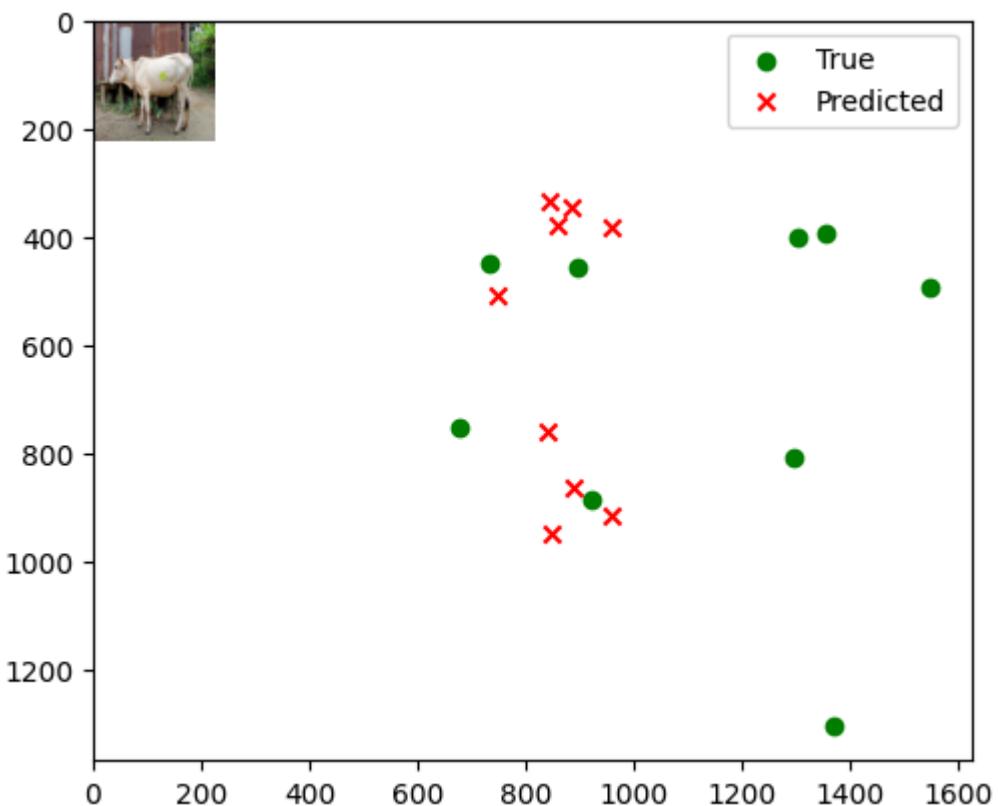


Image number: 74

True keypoints: [674. 344. 1501. 416. 659. 631. 837. 353. 857. 781. 124
2. 322.

1250. 721. 1329. 307. 1343. 1146.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[820.564 357.4881]

[710.3409 482.45282]

[801.3214 725.44495]

[911.2319 359.93347]

[912.34875 873.0499]

[840.1566 325.58215]

[843.5665 823.5792]

[801.0318 312.92047]

[805.6347 901.6427]]

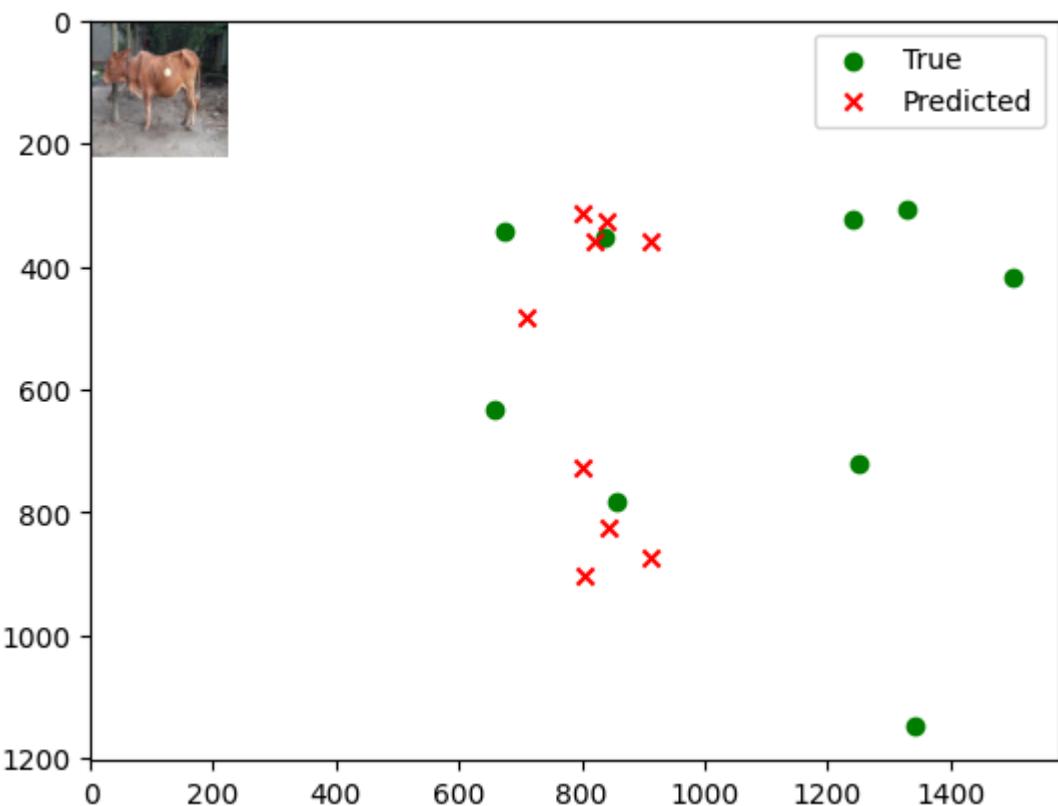


Image number: 75

True keypoints: [717. 237. 1794. 425. 729. 596. 947. 254. 967. 781. 143
7. 201.

1441. 713. 1546. 194. 1540. 1244.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[720.732 308.84427]

[618.33484 421.37885]

[704.5326 636.81537]

[796.4005 311.0427]

[797.38574 764.4531]

[732.7054 277.87106]

[735.68353 721.52673]

[697.61707 265.75525]

[702.22235 788.0123]]

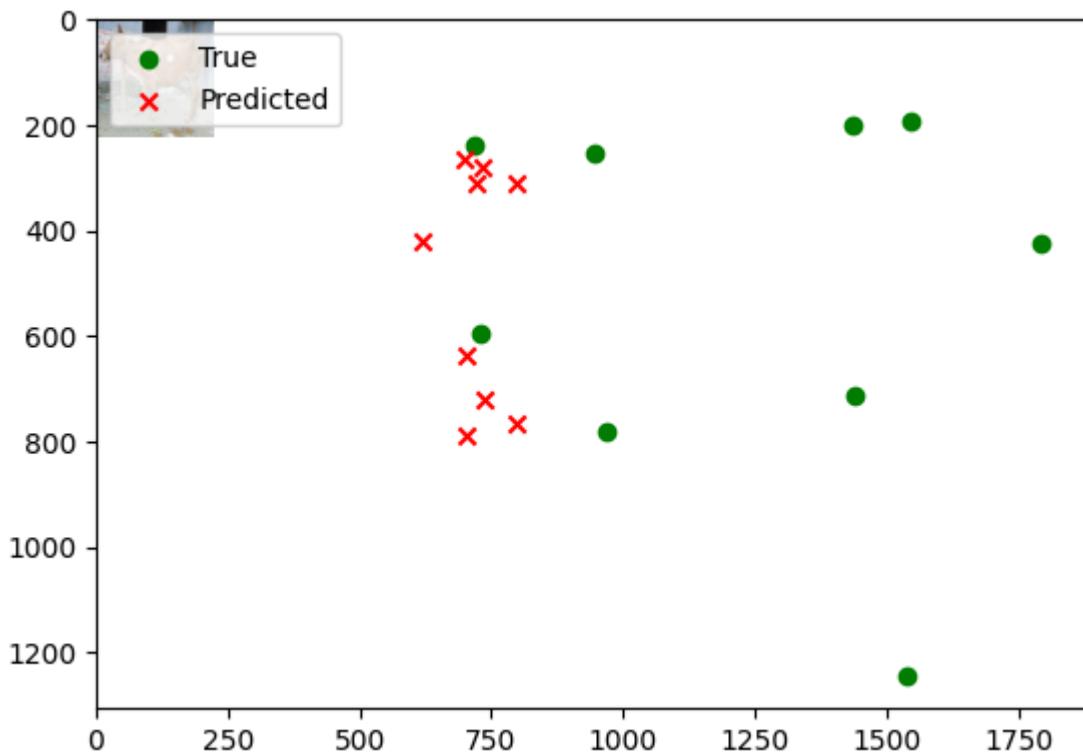


Image number: 76

True keypoints: [740. 315. 1672. 429. 708. 595. 923. 314. 949. 788. 134
2. 294. 1355. 737. 1444. 284. 1462. 1273.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[739.2701 318.38086]

[635.7649 432.93365]

[722.3947 653.2453]

[818.0341 320.6201]

[819.25726 784.8865]

[753.1807 287.57257]

[756.23065 740.5776]

[717.3929 275.45844]

[721.8636 809.4609]]

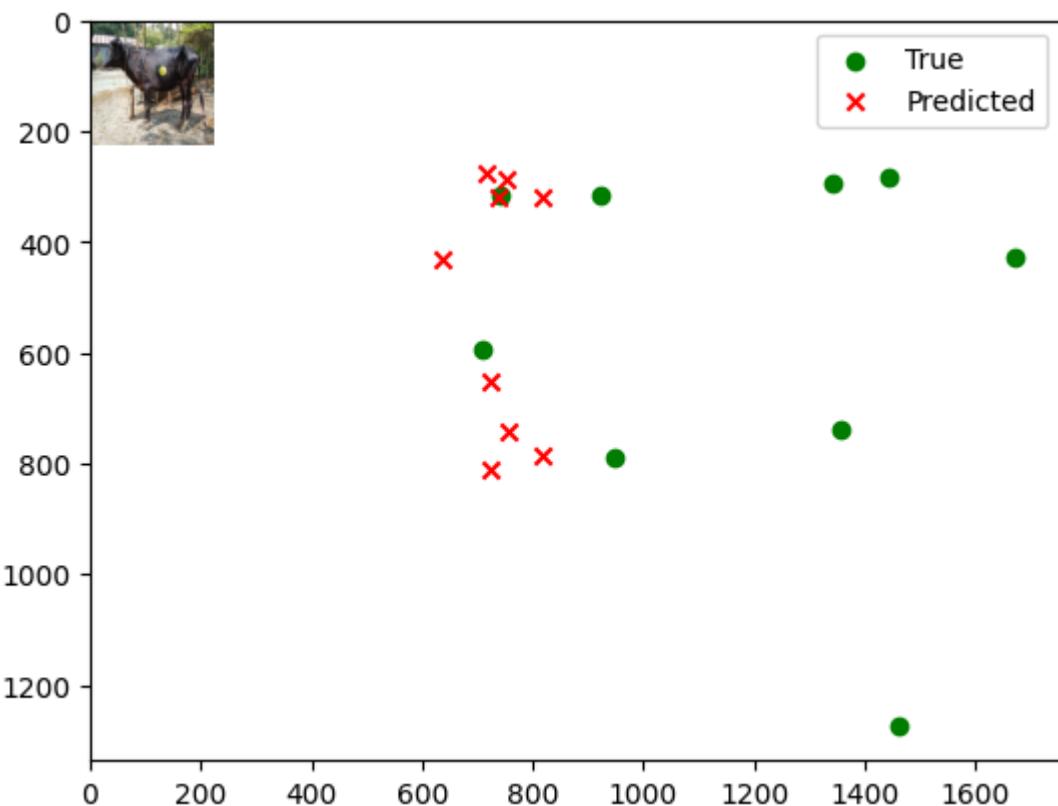


Image number: 77

True keypoints: [1297. 271. 216. 394. 1312. 628. 1039. 259. 1056. 757. 53. 2. 225.

553. 707. 429. 212. 473. 1080.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[718.38696 308.19373]

[609.4762 420.31403]

[702.9073 636.1312]

[791.2033 309.57907]

[792.1067 760.319]

[725.6575 274.91672]

[728.75696 719.0344]

[689.6138 262.52078]

[694.4365 782.6472]]

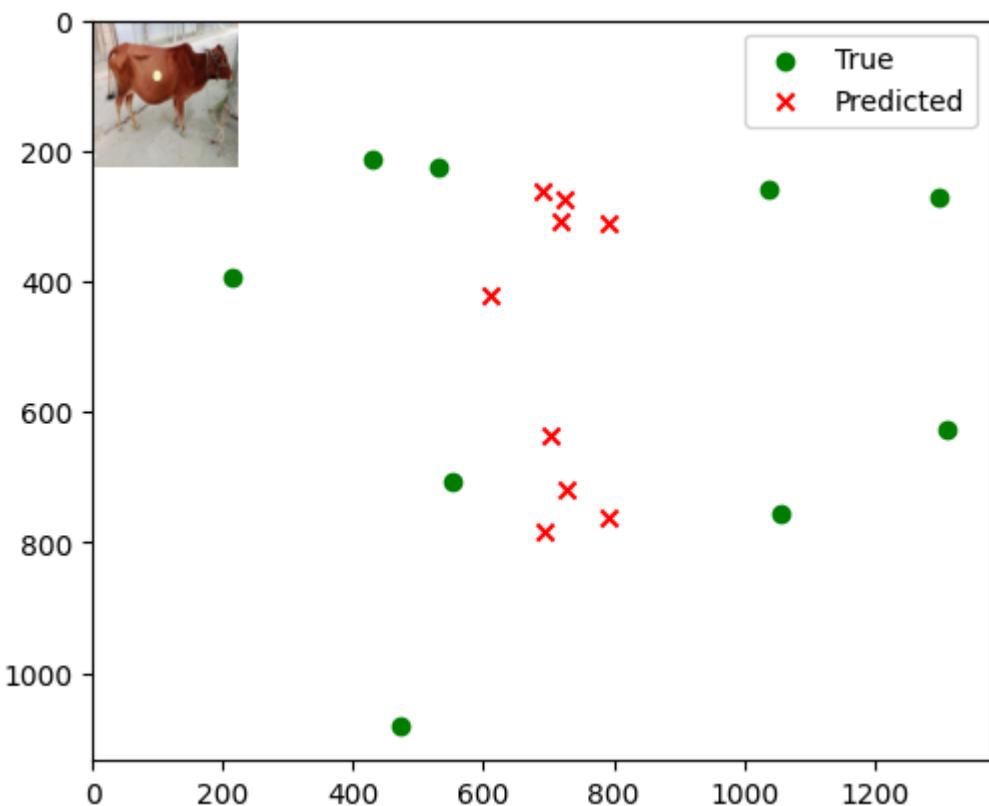


Image number: 78

True keypoints: [1124. 346. 238. 486. 1198. 671. 955. 385. 956. 814. 528. 335.]

541. 744. 470. 335. 506. 1233.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[823.40875 360.3221]]

[713.8843 484.90576]

[803.96564 728.17426]

[915.3618 362.67218]

[916.5981 876.69867]

[844.26434 329.06046]

[847.7992 826.93176]

[805.20447 316.56036]

[809.57404 905.69476]

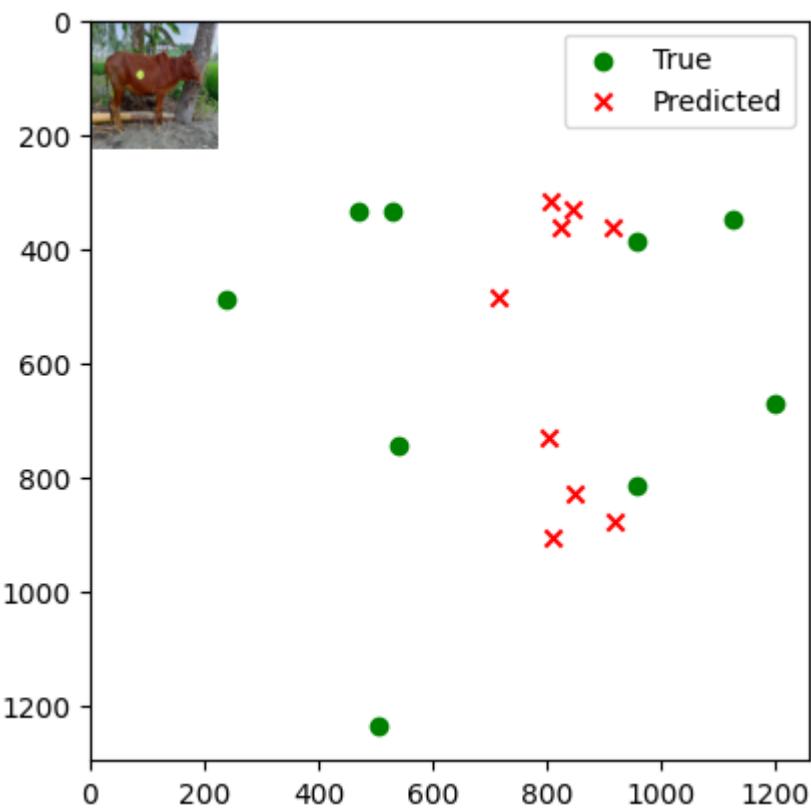


Image number: 79

True keypoints: [813. 453. 1403. 543. 763. 688. 920. 474. 922. 808. 120 8. 446.

1214. 759. 1271. 438. 1302. 1155.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[770.16095 333.09332]

[664.26636 451.68152]

[752.37726 680.6356]

[853.4348 335.44315]

[854.60864 818.3805]

[786.26184 301.886]

[789.4519 772.0672]

[749.23035 289.53894]

[753.7946 844.48096]]

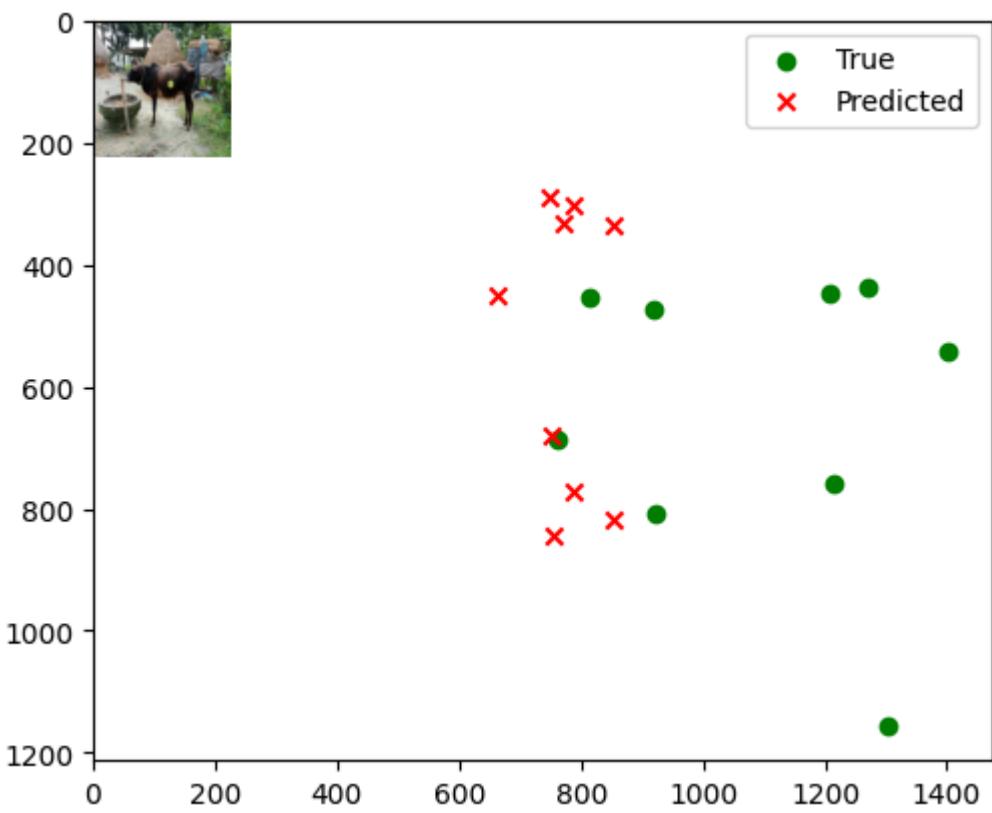


Image number: 80

True keypoints: [625. 350. 1573. 386. 615. 653. 846. 318. 865. 788. 130 0. 281.

1315. 698. 1390. 271. 1409. 1161.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[816.2111 354.90793]

[706.1094 479.52963]

[797.1053 721.4675]

[905.9489 357.3883]

[907.04016 868.1313]

[835.1881 322.86502]

[838.5248 818.98816]

[796.18945 310.1842]

[800.874 896.4371]]

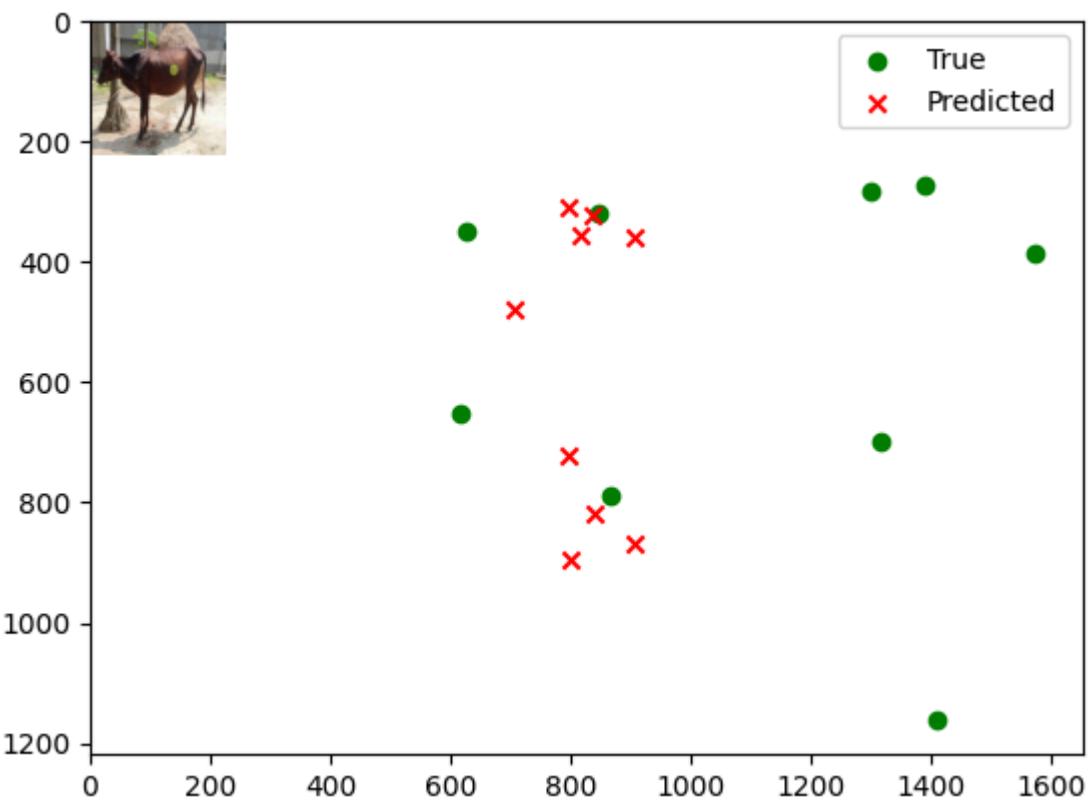


Image number: 81

True keypoints: [1112. 328. 213. 389. 1112. 661. 880. 314. 857. 779. 50
0. 266.

495. 738. 424. 254. 424. 1256.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[727.49396 314.46494]

[615.9365 426.90875]

[711.90906 645.10016]

[801.59283 315.3782]

[802.60004 770.23474]

[734.6827 280.8378]

[737.97656 728.77844]

[697.9761 268.41998]

[702.6186 792.7186]]

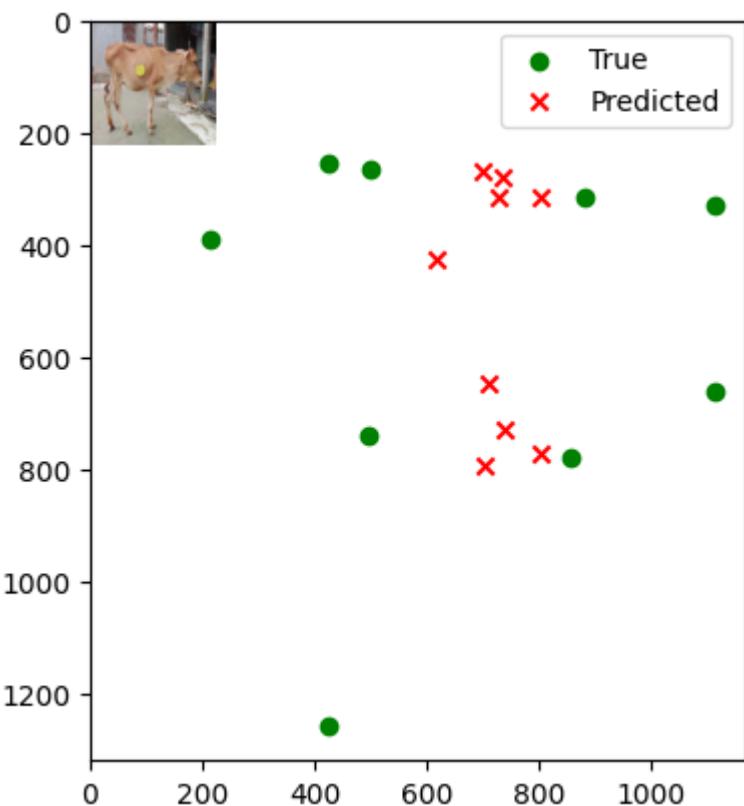


Image number: 82

True keypoints: [635. 340. 1706. 405. 604. 649. 822. 346. 866. 853. 131
6. 308.

1337. 816. 1469. 285. 1492. 1330.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[809.62317 350.98767]

[699.51636 475.1241]

[790.801 715.50494]

[897.8963 353.52832]

[898.9843 860.6807]

[827.5307 318.67715]

[830.8174 812.0318]

[788.7301 305.94086]

[793.5162 888.5177]]

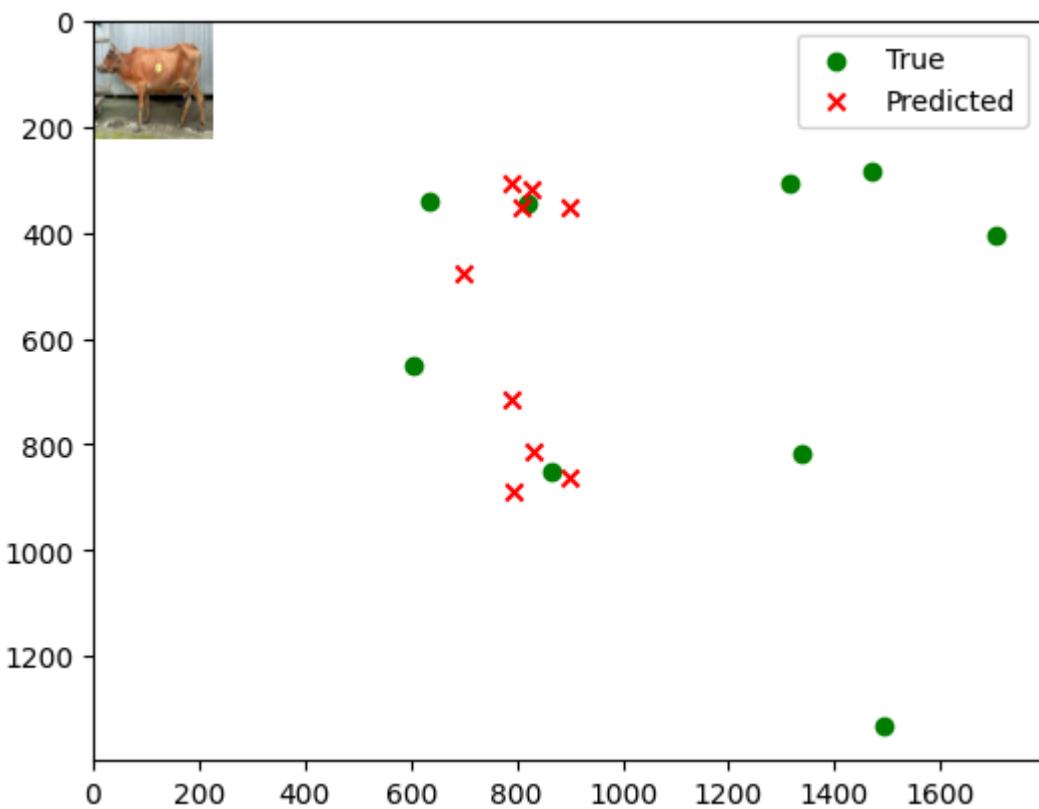


Image number: 83

True keypoints: [775. 294. 1763. 506. 688. 642. 958. 320. 947. 815. 141
2. 323.

1412. 773. 1532. 316. 1555. 1345.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[796.1559 345.8181]

[687.563 467.58783]

[777.6657 703.8309]

[883.083 348.11234]

[884.2424 846.4946]

[813.7907 314.09573]

[817.0693 798.6416]

[775.5924 301.57288]

[780.16846 873.79694]]

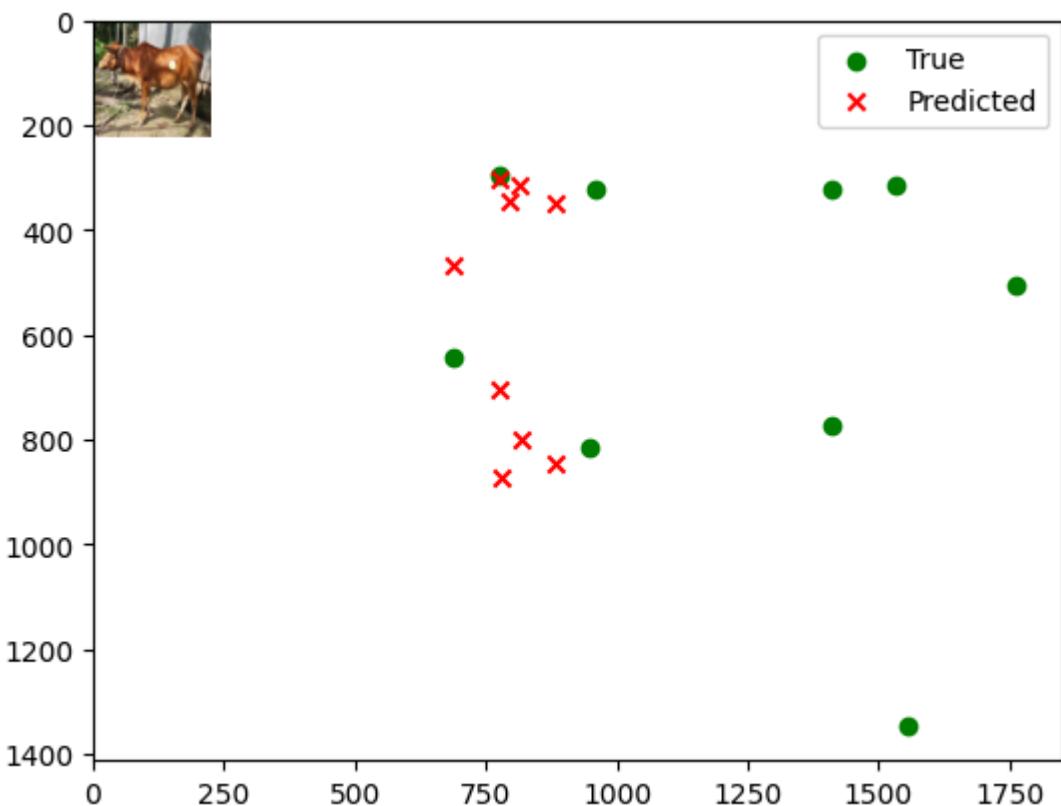


Image number: 84

True keypoints: [697. 355. 1626. 487. 702. 637. 899. 325. 917. 773. 135
0. 299.

1360. 730. 1428. 300. 1452. 1233.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[802.2834 348.5897]

[693.6636 471.25638]

[783.5614 709.1652]

[890.25977 351.02777]

[891.3794 853.1954]

[820.60925 316.9257]

[823.93384 804.89343]

[782.2498 304.38187]

[786.8365 880.89557]]

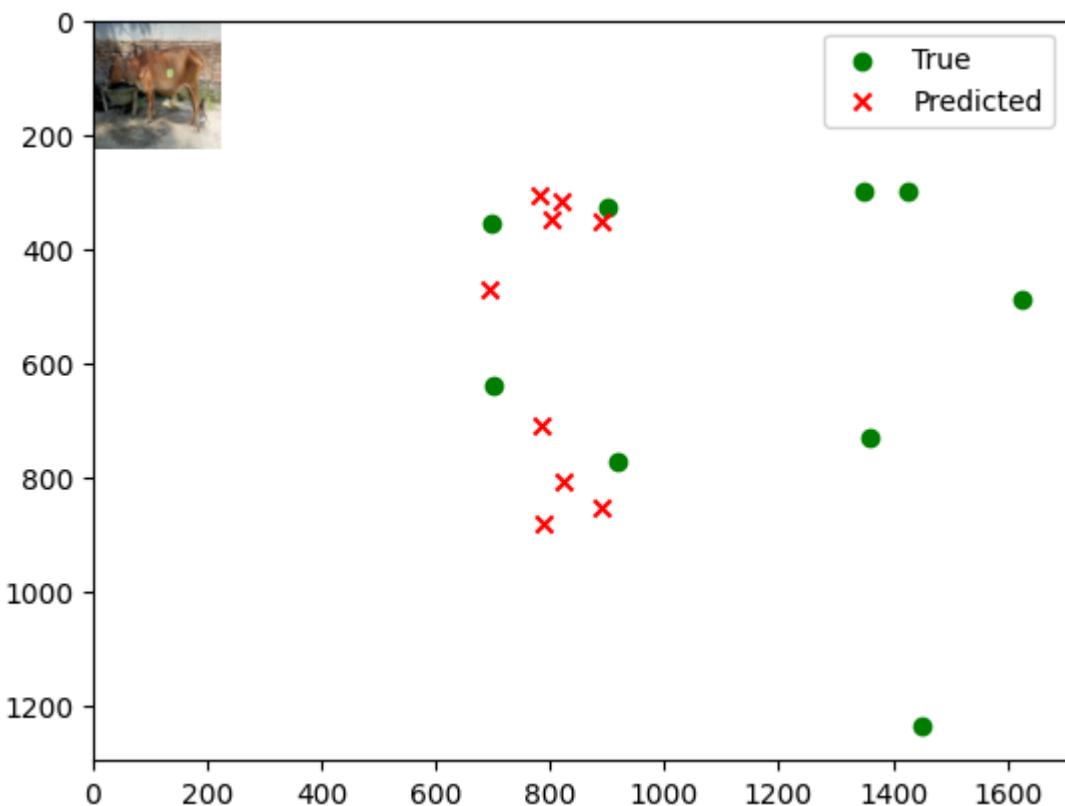


Image number: 85

True keypoints: [1174. 300. 155. 358. 1178. 626. 958. 305. 951. 771. 44. 8. 231.

467. 723. 341. 242. 399. 1216.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[787.6557 341.6079]

[679.67126 462.3572]

[769.42914 696.28894]

[873.26526 343.8965]

[874.4055 837.21936]

[804.5724 309.9268]

[807.81903 789.9395]

[766.6931 297.43405]

[771.2964 864.0737]]

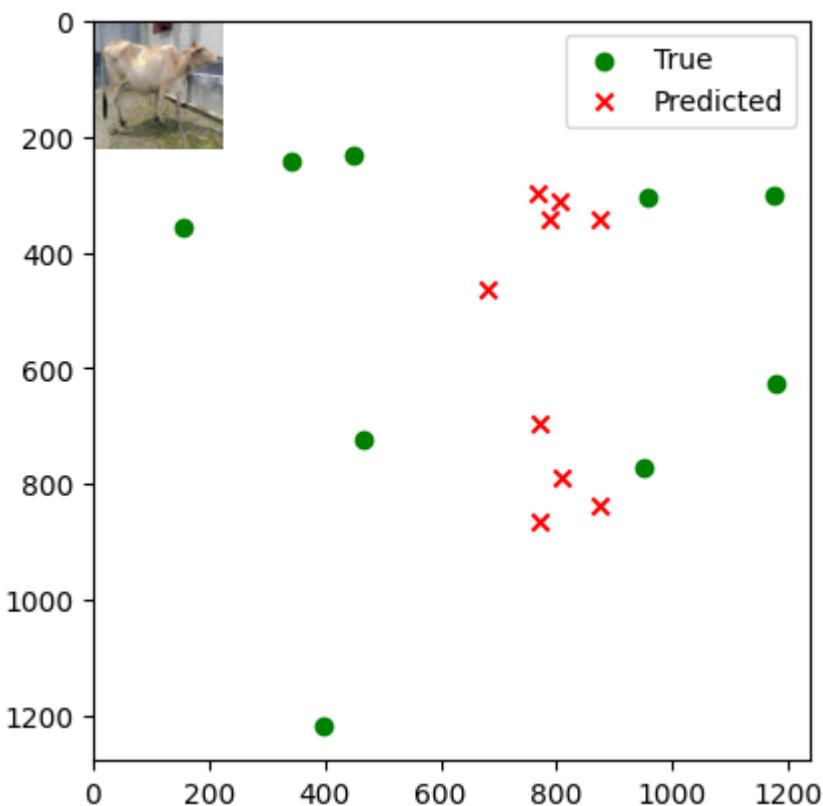


Image number: 86

True keypoints: [676. 310. 1613. 438. 718. 652. 944. 327. 945. 782. 135
4. 324.

1336. 729. 1414. 319. 1375. 1162.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[815.4938 355.71222]

[706.21704 479.7136]

[796.3367 721.0231]

[905.85675 358.1228]

[907.05304 867.8324]

[835.28815 324.23248]

[838.7297 818.61523]

[796.46234 311.70807]

[800.9357 896.30176]]

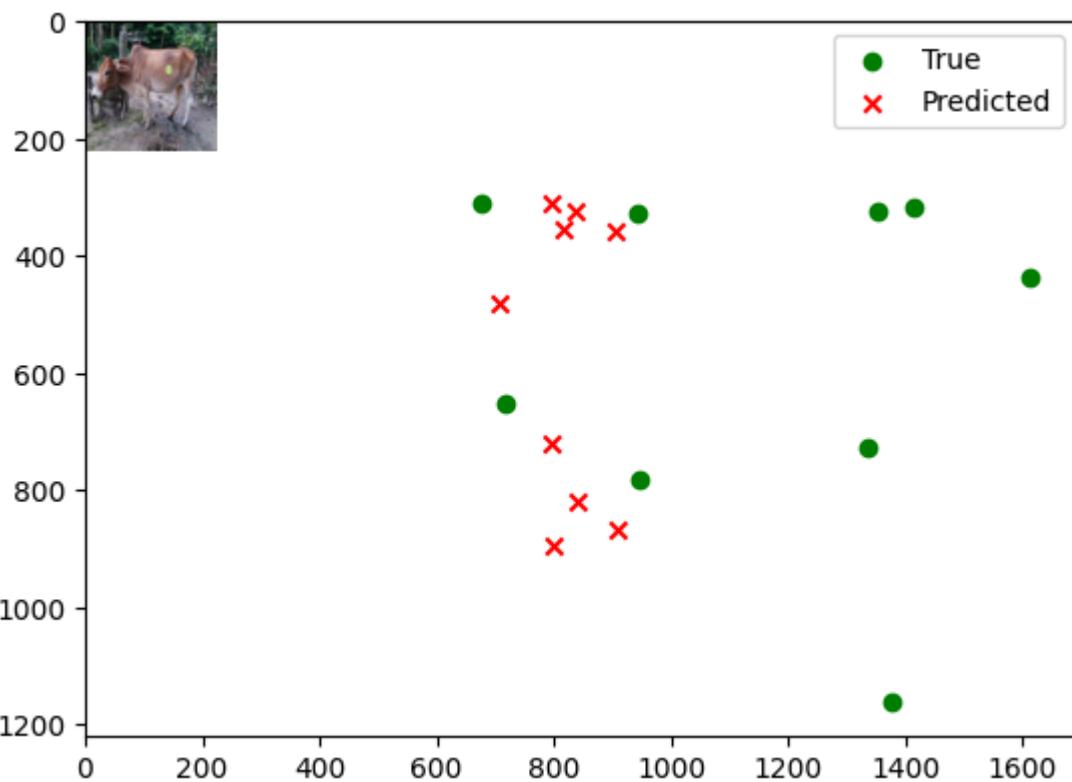


Image number: 87

True keypoints: [638. 216. 1627. 358. 631. 604. 860. 224. 880. 766. 135
9. 195.

1360. 702. 1427. 193. 1430. 1216.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[765.1852 330.5815]

[660.0342 448.62003]

[747.5876 676.18225]

[847.86584 332.96133]

[848.9097 813.0097]

[781.0533 299.4707]

[784.2378 767.02563]

[744.31055 287.16925]

[748.8657 838.92725]]

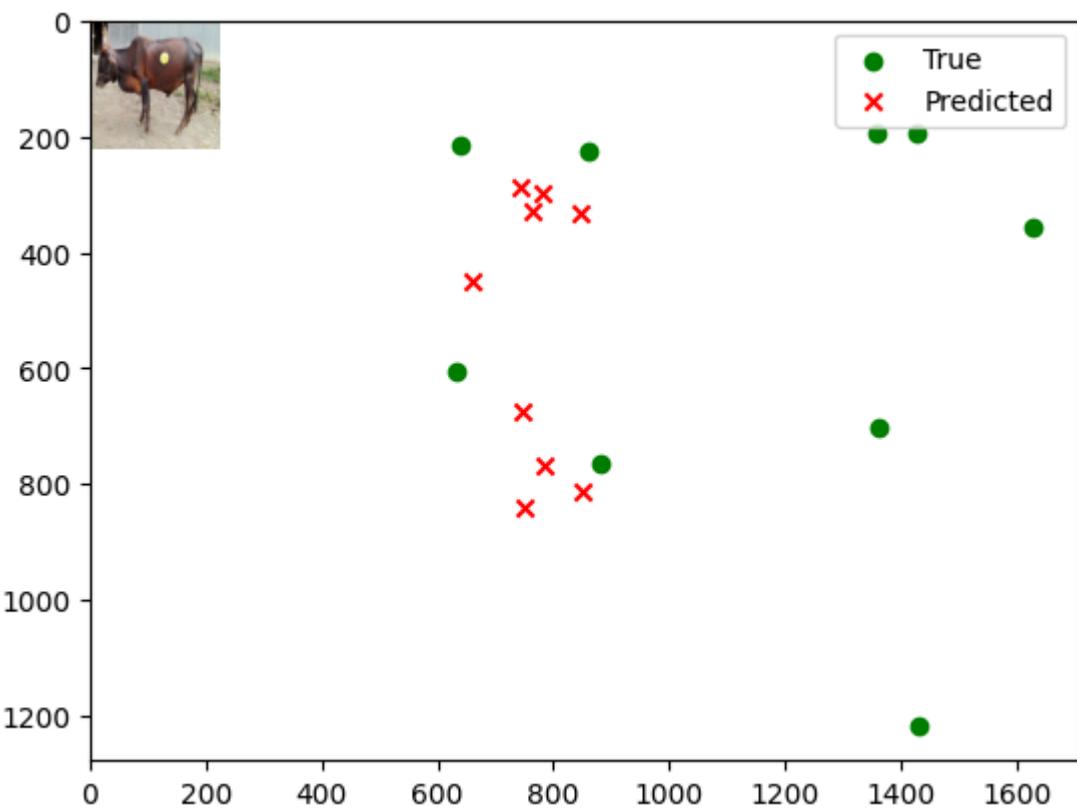


Image number: 88

True keypoints: [742. 370. 1551. 474. 728. 636. 915. 372. 932. 769. 129
0. 370.

1308. 734. 1373. 362. 1410. 1144.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[724.65216 313.10678]

[617.9157 425.00256]

[708.64825 641.6277]

[800.11194 314.5067]

[801.307 768.3056]

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[699.0488 269.11545]

[703.45776 791.4844]]

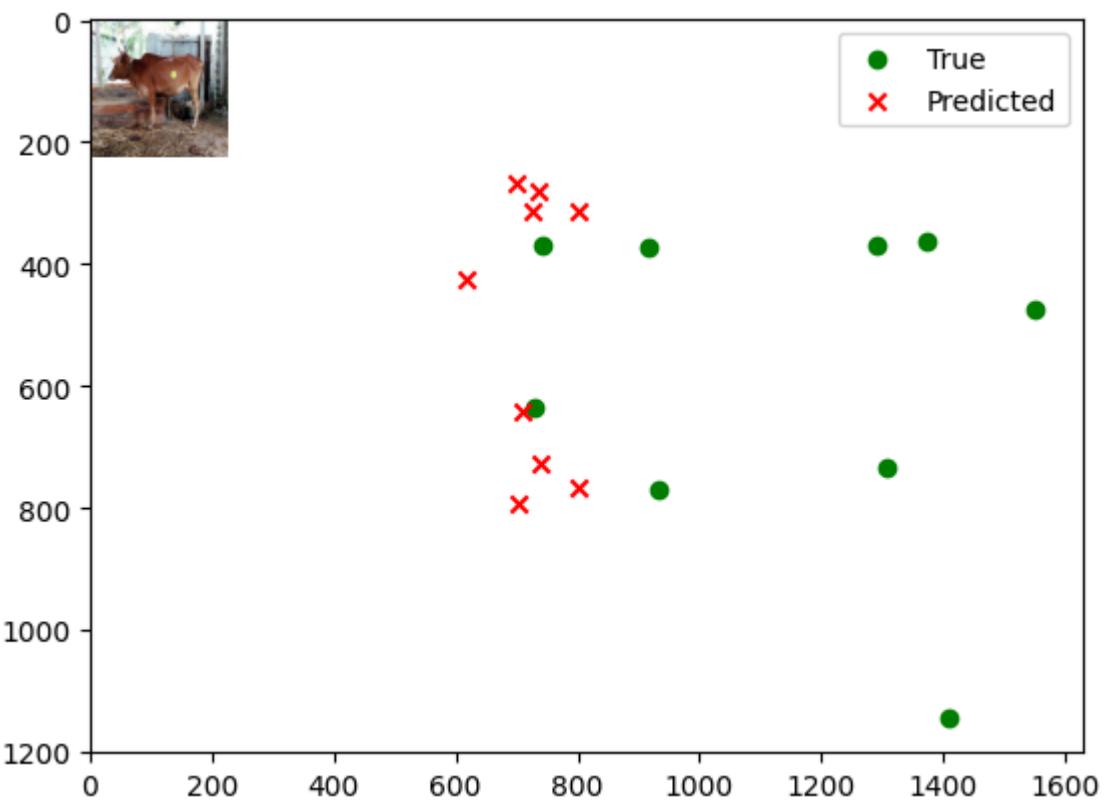


Image number: 89

True keypoints: [673. 285. 1699. 433. 644. 625. 851. 287. 868. 793. 133
2. 263.

1339. 753. 1466. 242. 1481. 1296.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[774.9708 335.24826]

[668.5311 454.50876]

[757.084 684.8731]

[858.844 337.62262]

[859.98474 823.5178]

[791.26013 303.89972]

[794.4675 776.9288]

[754.01276 291.4946]

[758.5973 849.816]]

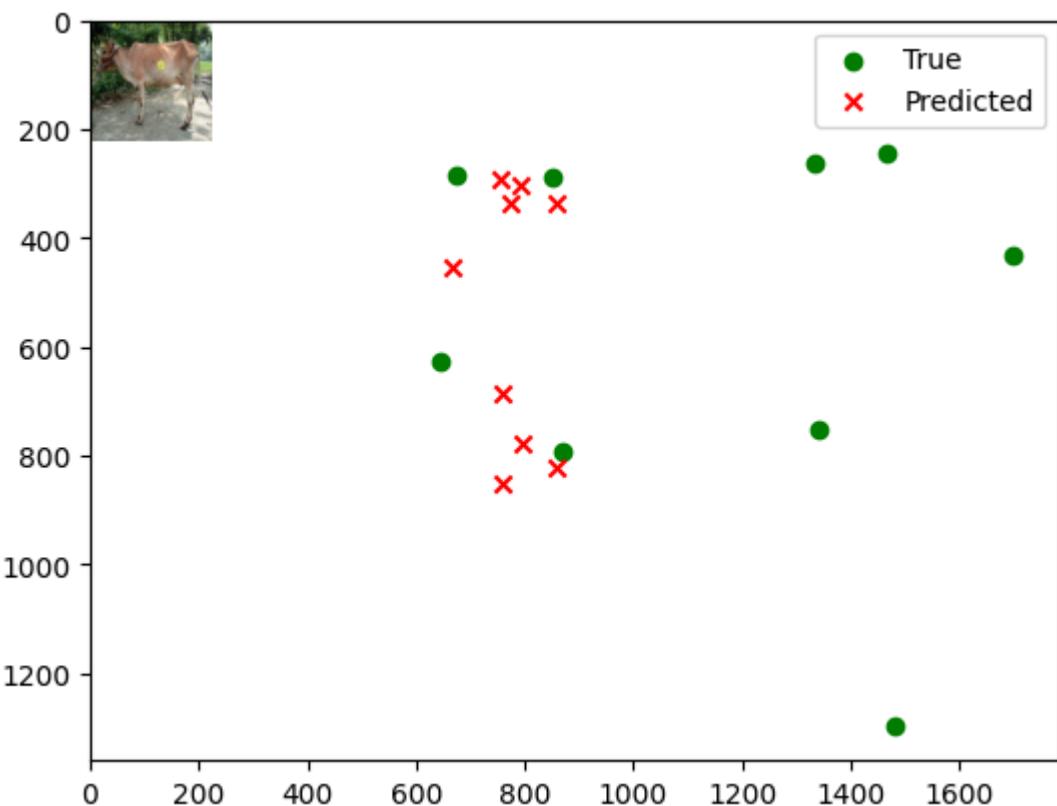


Image number: 90

True keypoints: [710. 324. 1690. 455. 728. 623. 893. 319. 933. 801. 135
1. 301.

1368. 764. 1452. 285. 1483. 1217.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[784.9955 340.4809]

[677.76373 460.82544]

[766.7603 693.8423]

[870.4791 342.80927]

[871.6877 834.5179]

[802.1788 309.10822]

[805.40576 787.2617]

[764.50604 296.6835]

[769.04456 861.3422]]

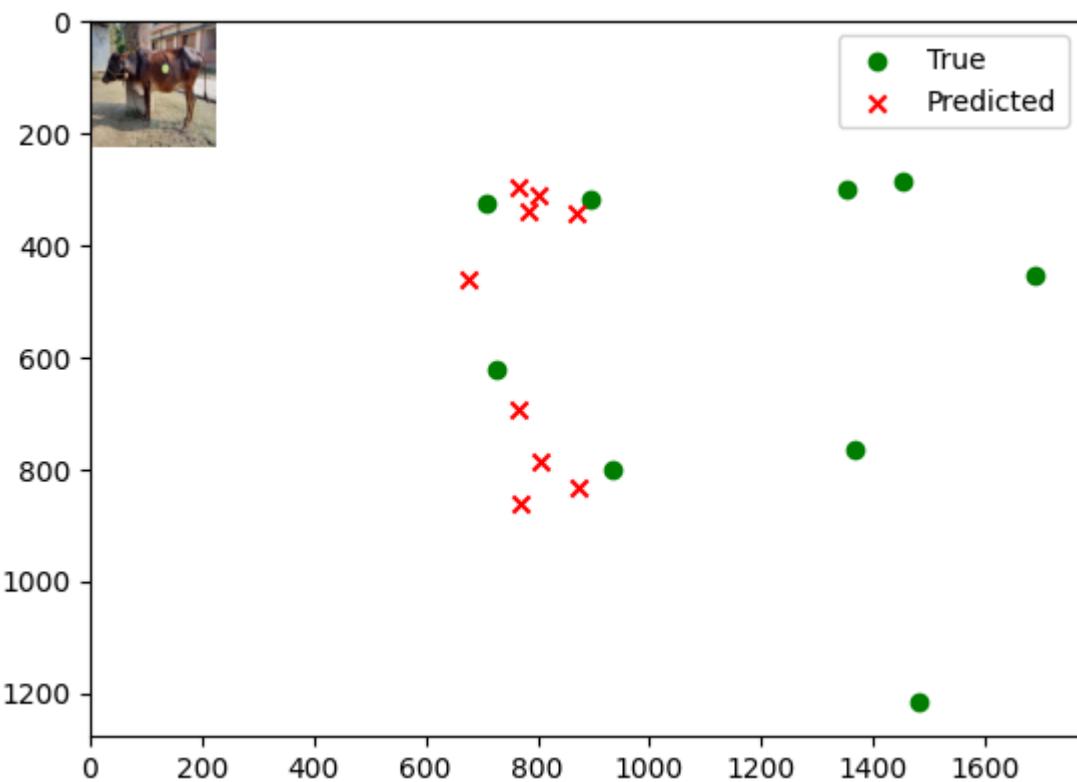


Image number: 91

True keypoints: [1224. 318. 241. 392. 1237. 643. 1002. 321. 1009. 806. 55
5. 292.
562. 745. 452. 279. 462. 1257.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[798.4361 346.55542]
[690.2134 468.79248]
[779.82855 705.6761]
[885.7965 349.01337]
[886.9176 848.9852]
[816.4711 314.9614]
[819.7512 800.9131]
[778.2792 302.42035]
[782.897 876.48193]]

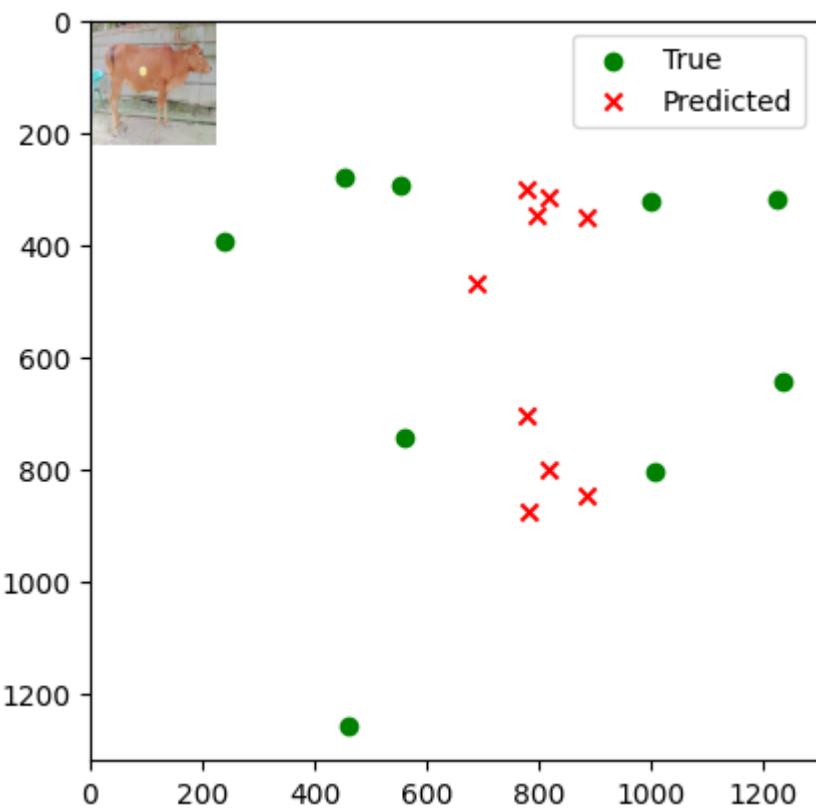


Image number: 92

True keypoints: [736. 266. 1715. 446. 700. 591. 924. 268. 933. 771. 138 0. 235.

1384. 712. 1498. 216. 1513. 1256.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[767.5424 331.07513]

[661.3434 449.6888]

[749.9136 678.1956]

[849.9655 333.46884]

[851.0509 815.21313]

[782.8644 299.53848]

[785.9868 769.182]

[745.8547 287.10858]

[750.5297 841.0605]]

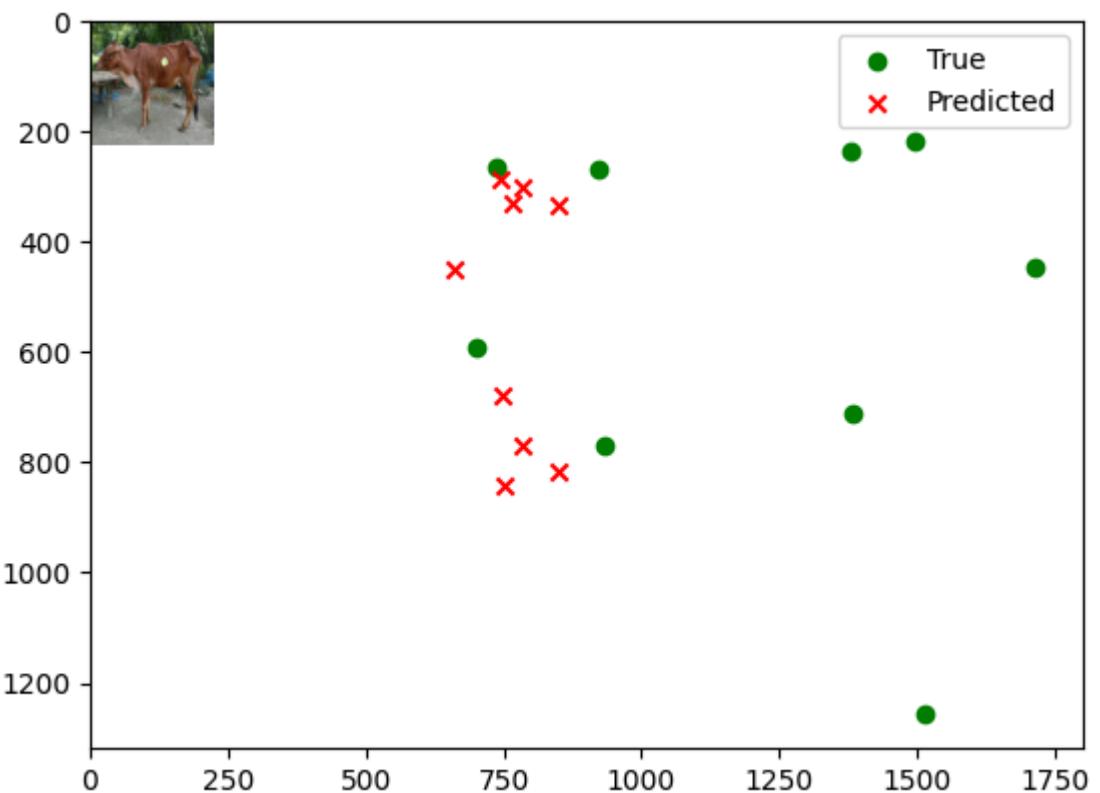


Image number: 93

True keypoints: [735. 299. 1689. 348. 676. 620. 913. 321. 928. 765. 135
9. 275.

1373. 685. 1463. 258. 1495. 1260.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[790.44025 343.42728]

[683.6274 464.31497]

[772.0154 698.66785]

[877.22925 345.86188]

[878.3683 840.6555]

[808.6305 312.36078]

[811.988 792.99603]

[770.9135 299.97943]

[775.3807 867.94617]]

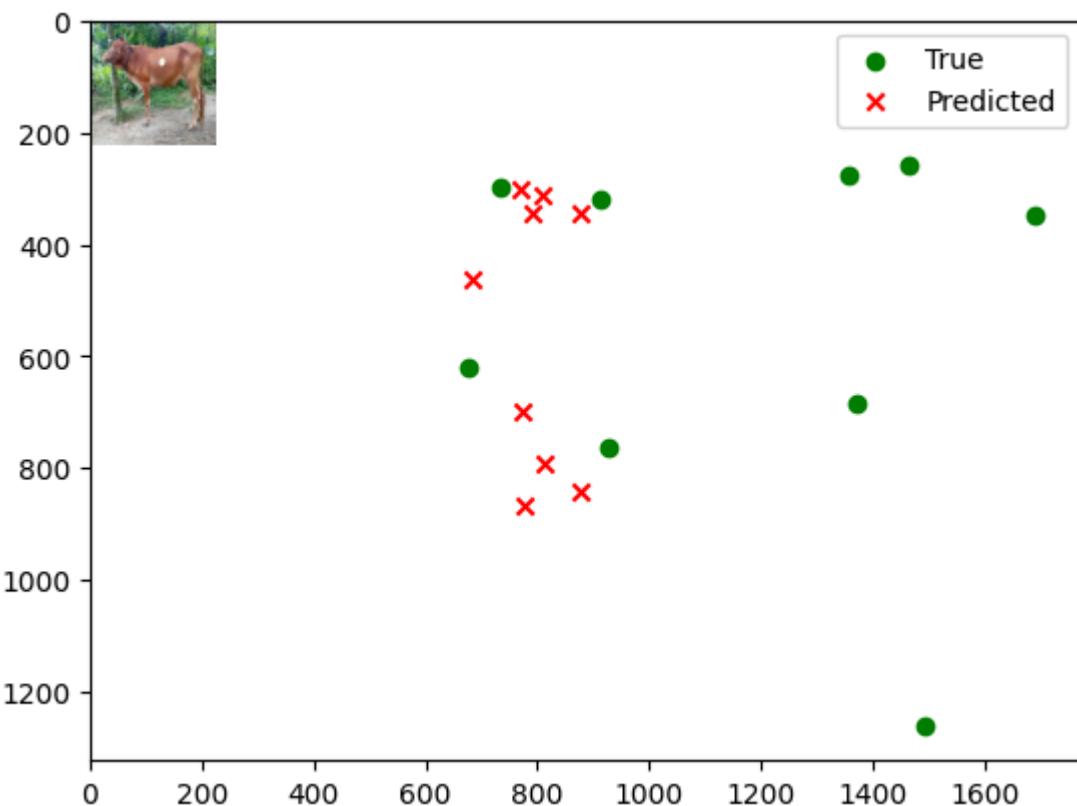


Image number: 94

True keypoints: [1214. 404. 433. 451. 1230. 676. 1052. 403. 1024. 802. 667. 353.

663. 729. 618. 345. 613. 1146.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[823.3479 359.57983]

[713.1623 484.51758]

[803.9879 728.0638]

[914.78375 361.9605]

[915.9437 876.2937]

[843.53107 327.89575]

[847.0009 826.6601]

[804.36 315.29327]

[808.8473 905.15515]]

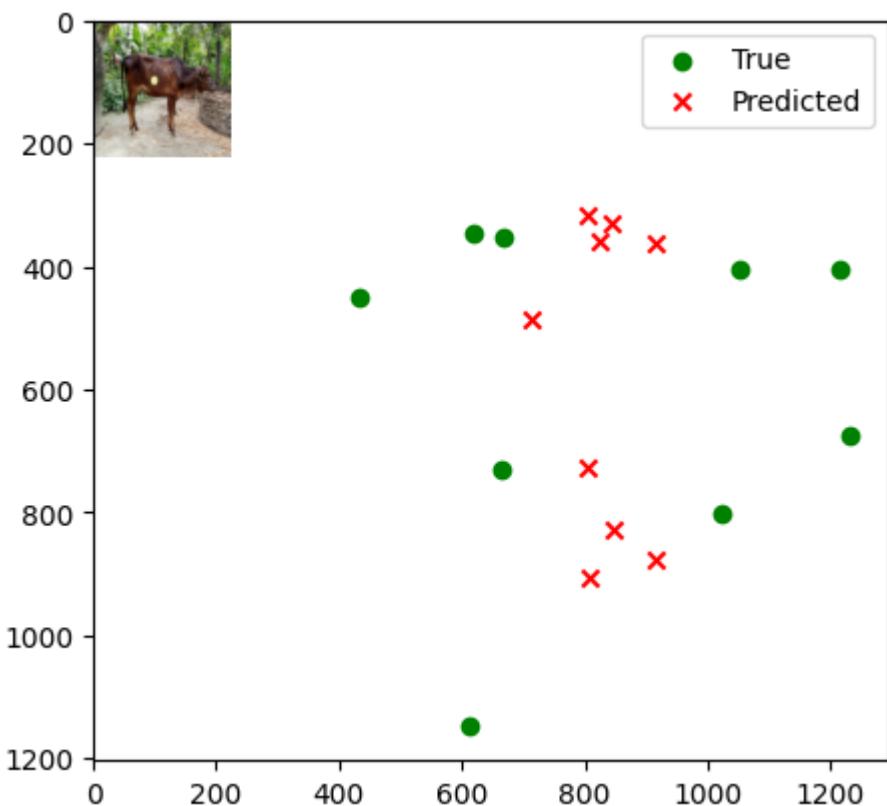


Image number: 95

True keypoints: [714. 295. 1717. 324. 725. 602. 918. 265. 947. 751. 141
2. 197.

1438. 662. 1497. 183. 1528. 1229.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[751.03375 324.56293]

[646.6093 440.37115]

[733.88654 663.9099]

[831.7233 326.74094]

[832.8424 797.7273]

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[769.034 752.78577]

[729.61163 281.50156]

[734.0475 822.93555]]

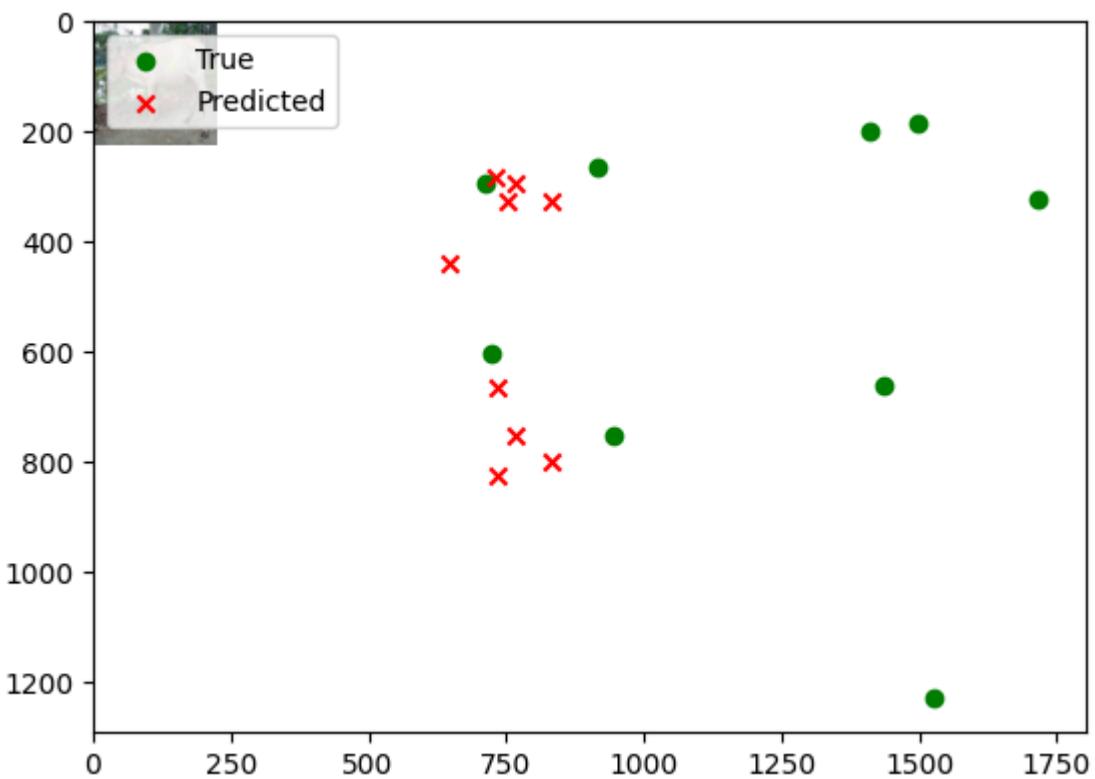


Image number: 96

True keypoints: [690. 202. 1748. 289. 662. 577. 887. 216. 926. 763. 136
2. 146.

1382. 666. 1494. 139. 1533. 1242.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[752.4032 323.9735]

[647.84265 440.56262]

[735.22144 664.76587]

[832.8501 326.38513]

[833.91956 798.892]

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[730.6471 280.5117]

[735.2584 824.1396]]

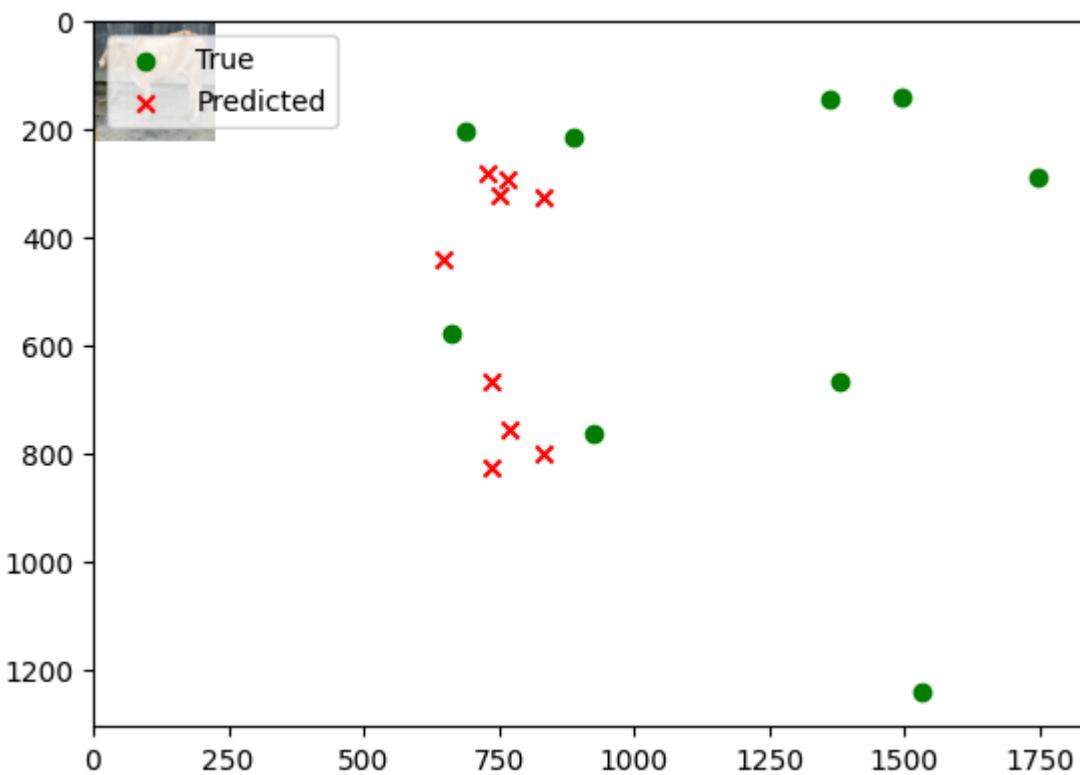


Image number: 97

True keypoints: [1217. 207. 167. 320. 1189. 523. 947. 199. 961. 694. 51. 166.

535. 654. 421. 158. 466. 1154.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[739.34125 317.76242]

[635.8145 432.66238]

[722.50916 653.1868]

[817.86957 320.07422]

[818.93036 784.7364]

[752.9358 286.7322]

[755.9884 740.4891]

[717.15497 274.53143]

[721.7497 809.2706]]

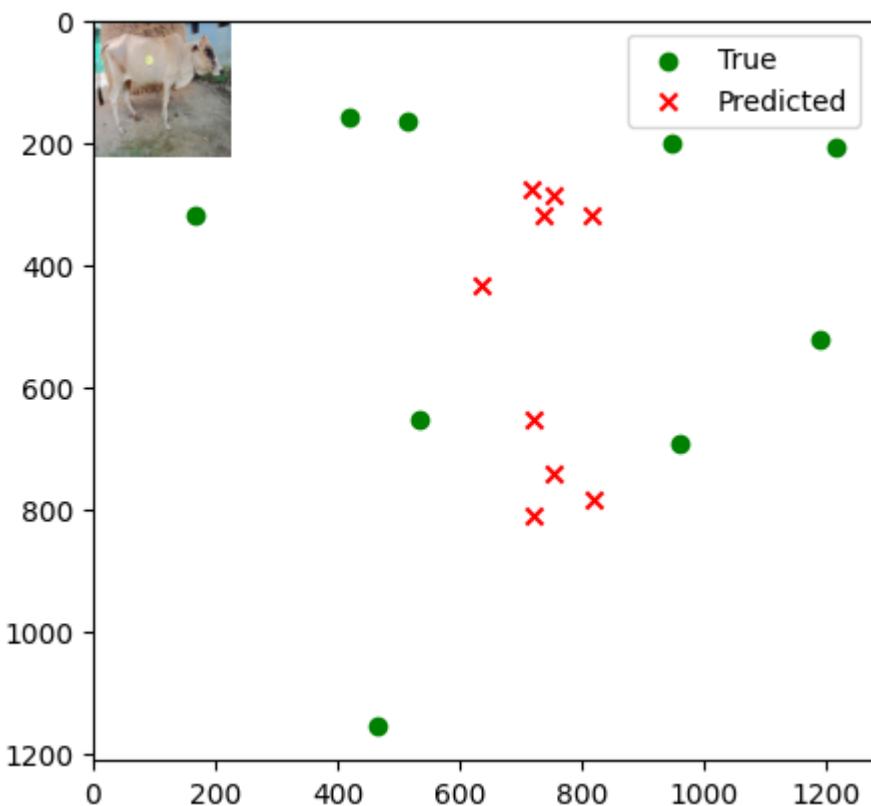


Image number: 98

True keypoints: [778. 359. 1651. 397. 761. 659. 959. 346. 965. 797. 139
7. 307.

1417. 715. 1464. 299. 1503. 1272.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[802.0276 348.9634]

[693.6229 471.35928]

[783.28125 709.01855]

[890.2026 351.32483]

[891.41034 853.1152]

[820.6419 317.5116]

[823.97864 804.7419]

[782.315 305.01135]

[786.8281 880.8304]]

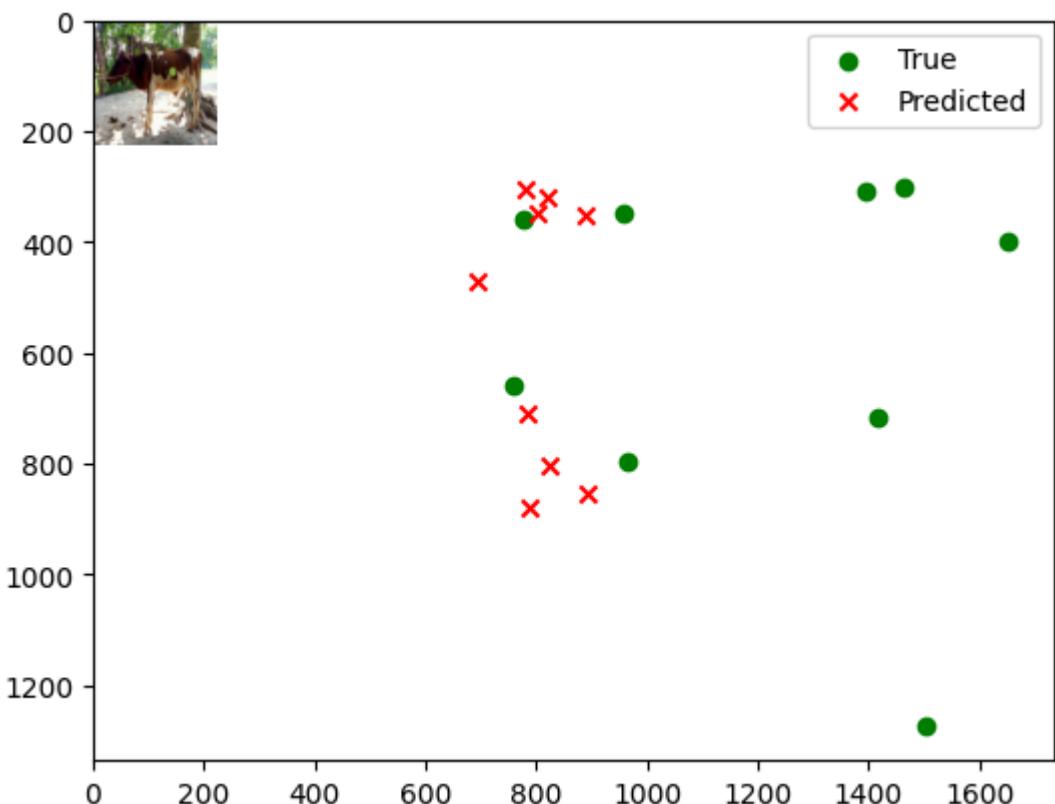


Image number: 99

True keypoints: [697. 291. 1768. 336. 687. 631. 966. 263. 999. 784. 141
3. 191.

1435. 690. 1487. 180. 1519. 1176.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[771.39355 333.27374]

[665.1712 452.2201]

[753.62103 681.6591]

[854.6384 335.66595]

[855.73566 819.55585]

[787.30536 301.86557]

[790.4612 773.2394]

[750.189 289.47757]

[754.7991 845.67395]]

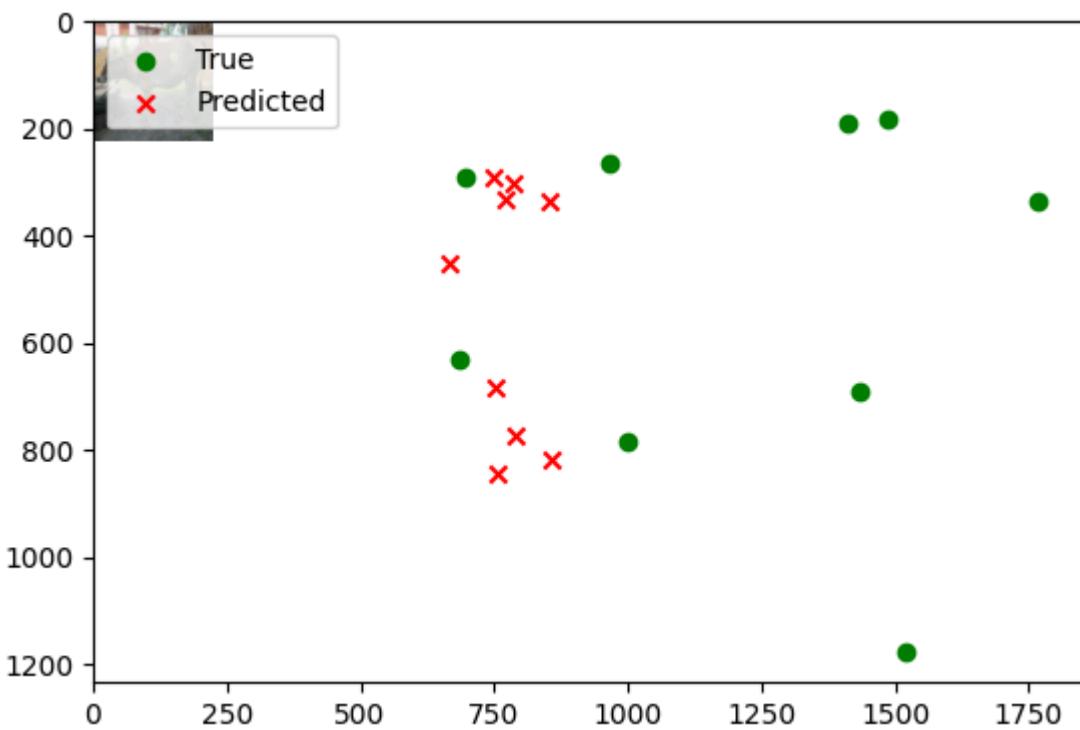


Image number: 100

True keypoints: [650. 264. 1661. 366. 611. 571. 867. 266. 881. 738. 133
9. 224.

1343. 695. 1446. 213. 1446. 1142.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[758.3625 327.18317]

[653.56305 444.38748]

[740.9566 670.1003]

[839.9013 329.54333]

[840.9949 805.5343]

[773.6107 296.0935]

[776.74524 760.00653]

[737.10156 283.80505]

[741.6554 831.07684]]

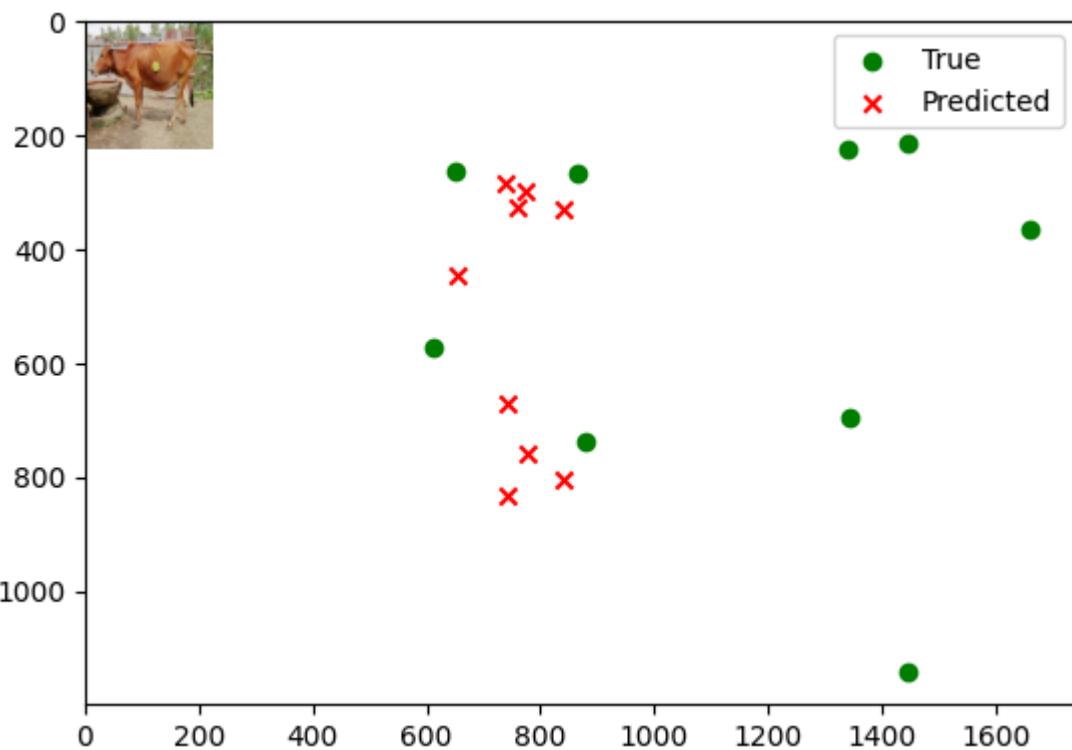


Image number: 101

True keypoints: [1167. 273. 251. 471. 1246. 593. 1019. 298. 1040. 771. 523. 267.

546. 744. 465. 265. 486. 1173.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[710.2927 305.71832]

[603.52496 416.08527]

[694.87524 629.0523]

[783.0277 307.00885]

[784.1354 752.3228]

[718.52527 273.45828]

[721.6483 711.18176]

[683.0527 261.31863]

[687.5846 774.5458]]

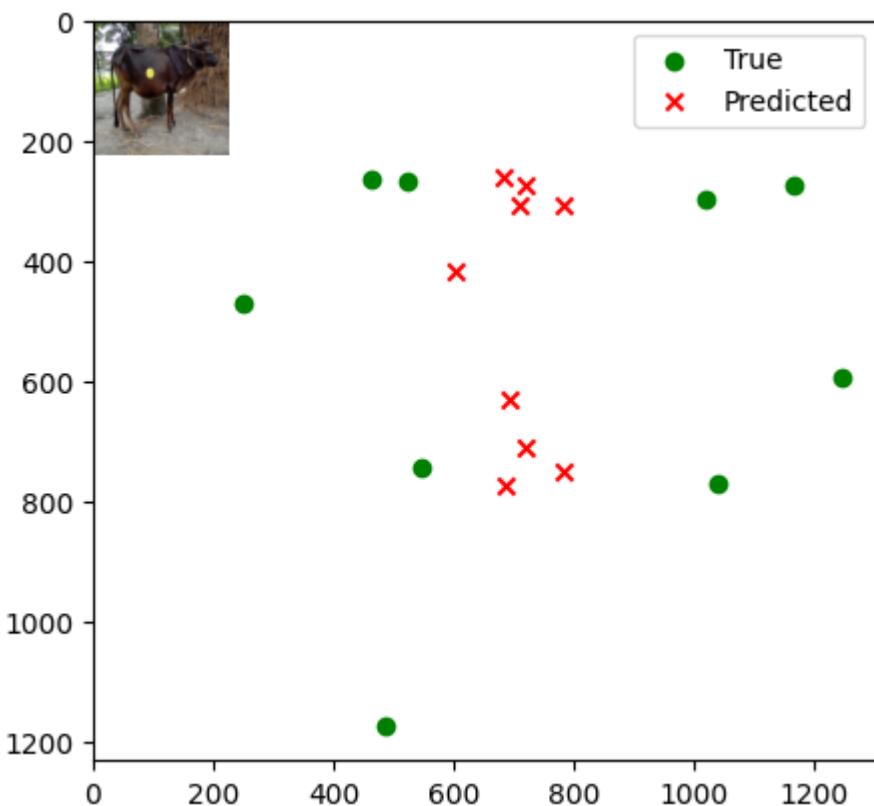


Image number: 102

True keypoints: [765. 386. 1719. 434. 830. 677. 1011. 349. 1041. 779. 144
2. 300.

1456. 711. 1504. 291. 1523. 1132.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[839.8667 366.54034]

[728.13995 494.0924]

[820.0785 742.5191]

[933.3132 369.09894]

[934.3363 893.92004]

[860.758 334.33942]

[864.2356 843.2429]

[820.8717 321.54175]

[825.5293 923.4743]]

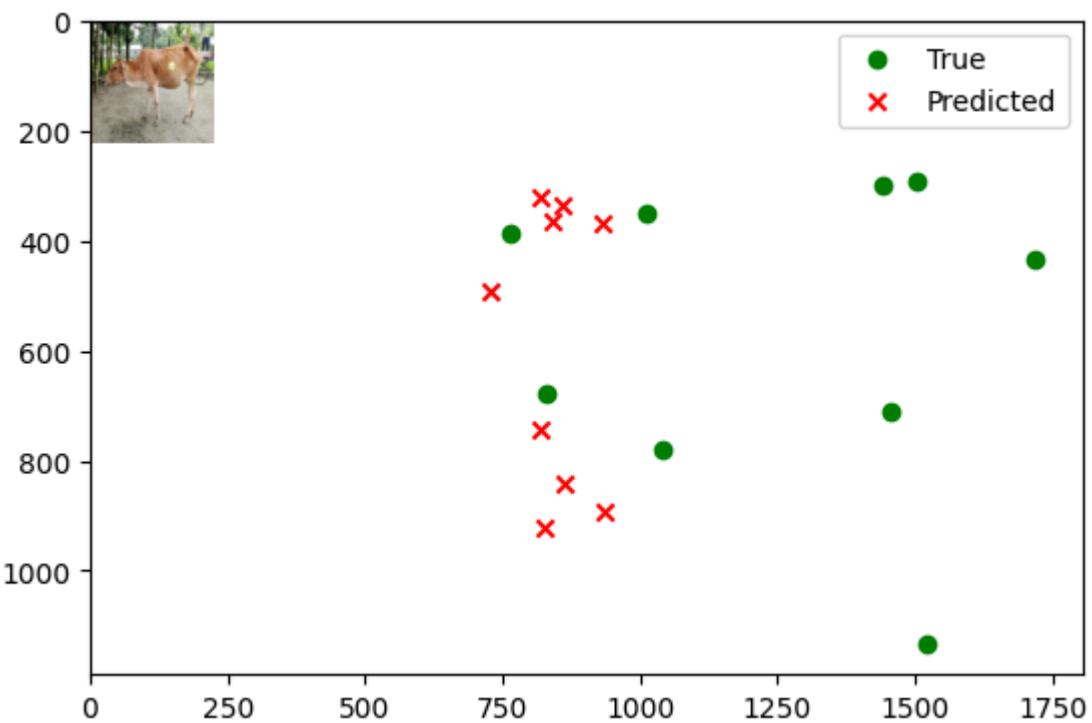


Image number: 103

True keypoints: [756. 437. 1662. 442. 762. 651. 957. 386. 979. 792. 1385. 354. 1402. 718. 1470. 332. 1513. 1255.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[803.5129 349.9112]

[695.0536 472.38104]

[784.7218 710.39594]

[892.0342 352.2557]

[893.23724 854.80237]

[822.34106 318.501]

[825.708 806.34515]

[783.9747 306.0328]

[788.454 882.63403]]

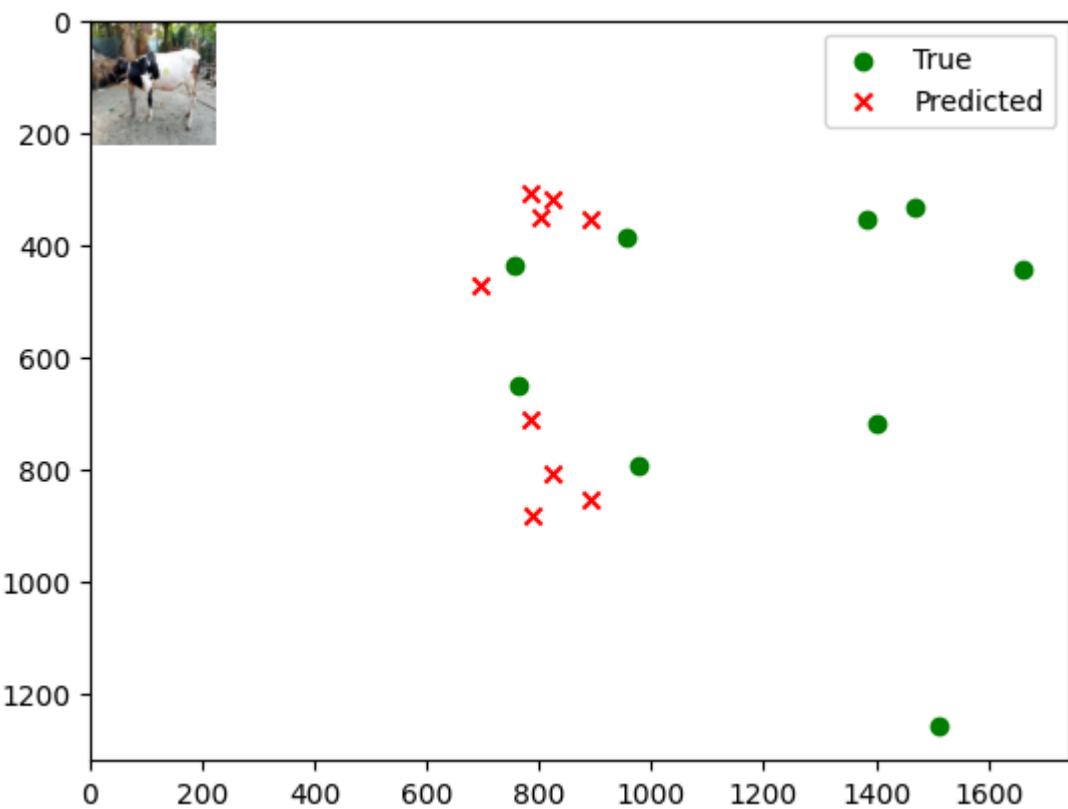


Image number: 104

True keypoints: [631. 246. 1616. 357. 619. 580. 843. 247. 866. 752. 128
3. 197.

1301. 657. 1387. 190. 1417. 1246.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[751.05225 323.56445]

[646.75977 439.89297]

[733.8688 663.60394]

[831.44885 325.91833]

[832.54224 797.5347]

[765.6948 292.52686]

[768.802 752.51196]

[729.4586 280.27155]

[734.01544 822.7242]]

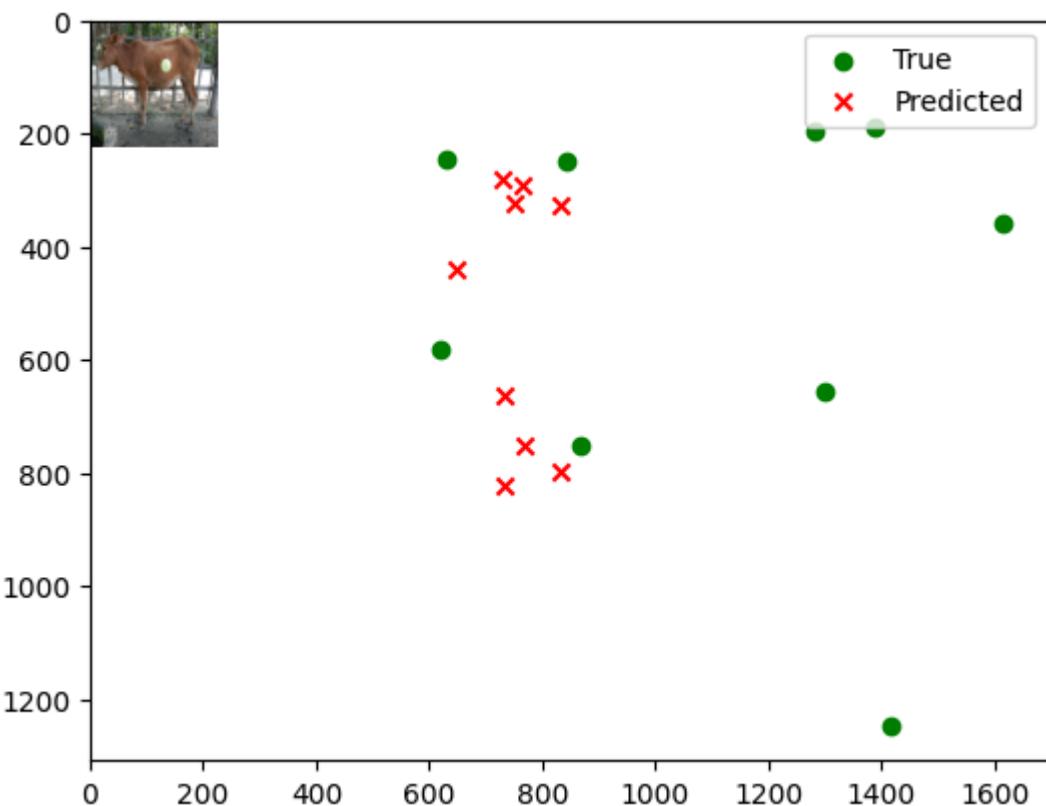


Image number: 105

True keypoints: [738. 439. 1581. 521. 719. 724. 895. 440. 905. 860. 131
7. 413.

1327. 788. 1408. 400. 1418. 1293.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[884.364 389.03296]

[769.4297 521.7737]

[863.22253 782.23883]

[984.9163 391.62543]

[985.968 942.55035]

[909.0188 356.6469]

[912.7615 889.04987]

[867.39404 343.67828]

[871.946 974.4929]]

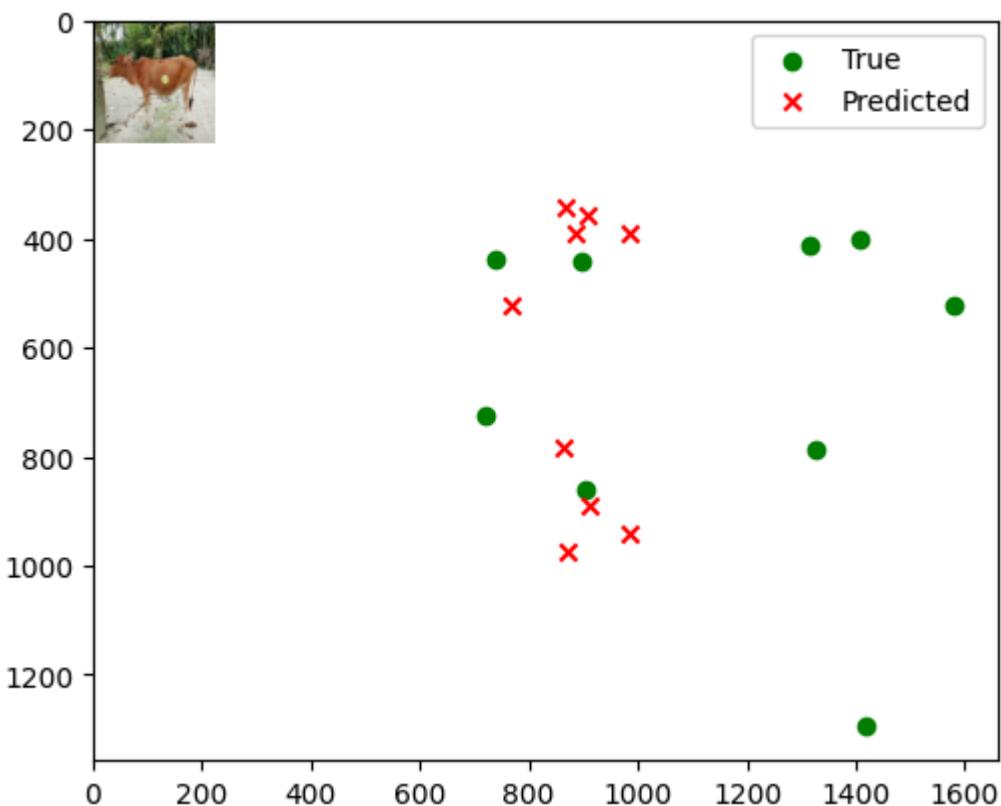


Image number: 106

True keypoints: [726. 181. 1653. 299. 680. 519. 912. 187. 934. 692. 136 0. 150.

1374. 626. 1444. 136. 1462. 1204.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[752.5634 324.19983]

[647.8781 440.7467]

[735.34906 664.942]

[833.0362 326.53296]

[834.1433 799.1105]

[767.1263 293.02853]

[770.21277 753.9969]

[730.7885 280.74213]

[735.3695 824.29767]]

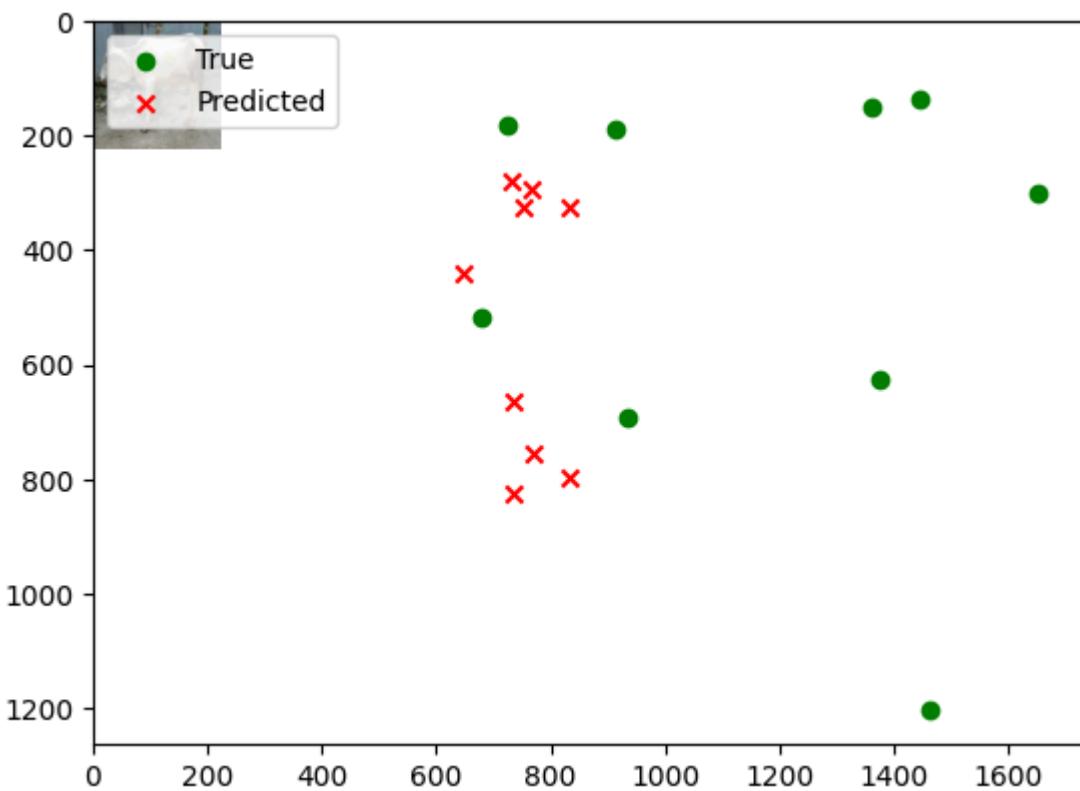


Image number: 107

True keypoints: [765. 283. 1713. 398. 758. 589. 968. 277. 985. 731. 141
3. 254.

1409. 671. 1514. 238. 1498. 1226.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[758.34265 327.90192]

[653.7012 444.73596]

[740.8827 670.239]

[840.2108 330.18668]

[841.3581 805.7064]

[773.9352 297.03247]

[777.13245 760.1967]

[737.4531 284.8578]

[741.8981 831.3542]]

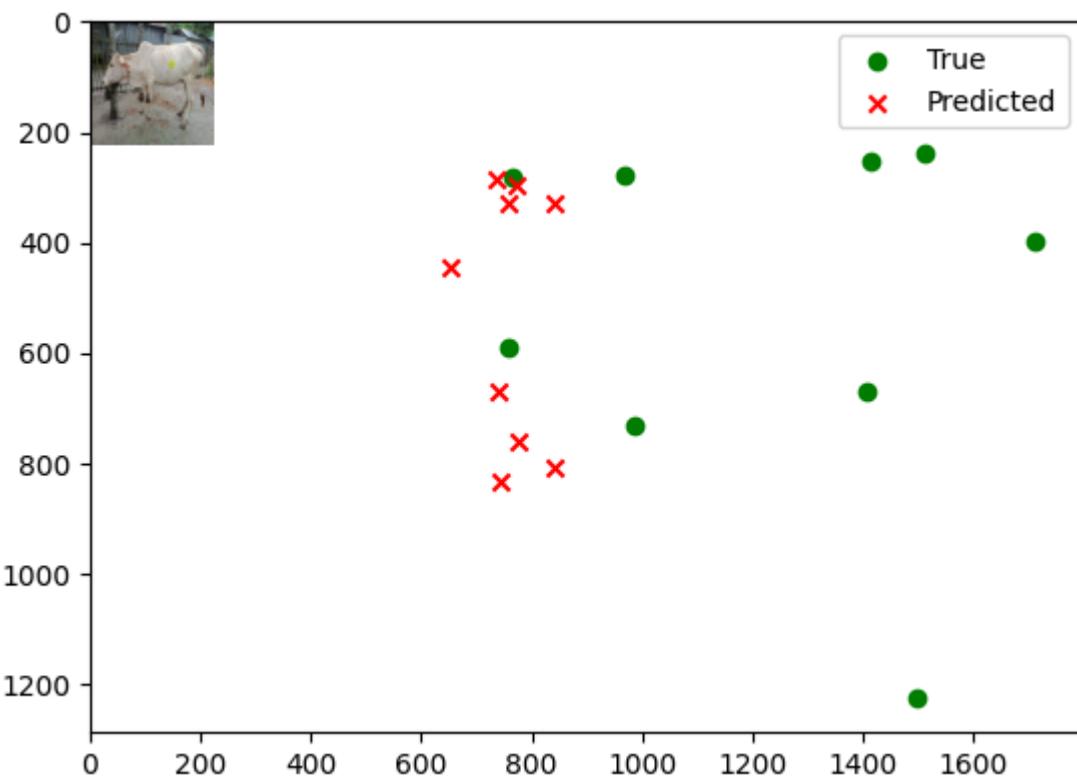


Image number: 108

True keypoints: [685. 161. 1684. 311. 644. 526. 908. 168. 908. 676. 138
1. 146.

1369. 635. 1471. 137. 1421. 1200.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[746.771 321.47733]

[642.6261 437.2319]

[729.747 659.80304]

[826.448 323.81006]

[827.5437 792.86475]

[760.95734 290.39893]

[764.0525 748.1132]

[724.8876 278.17114]

[729.4684 817.76227]]

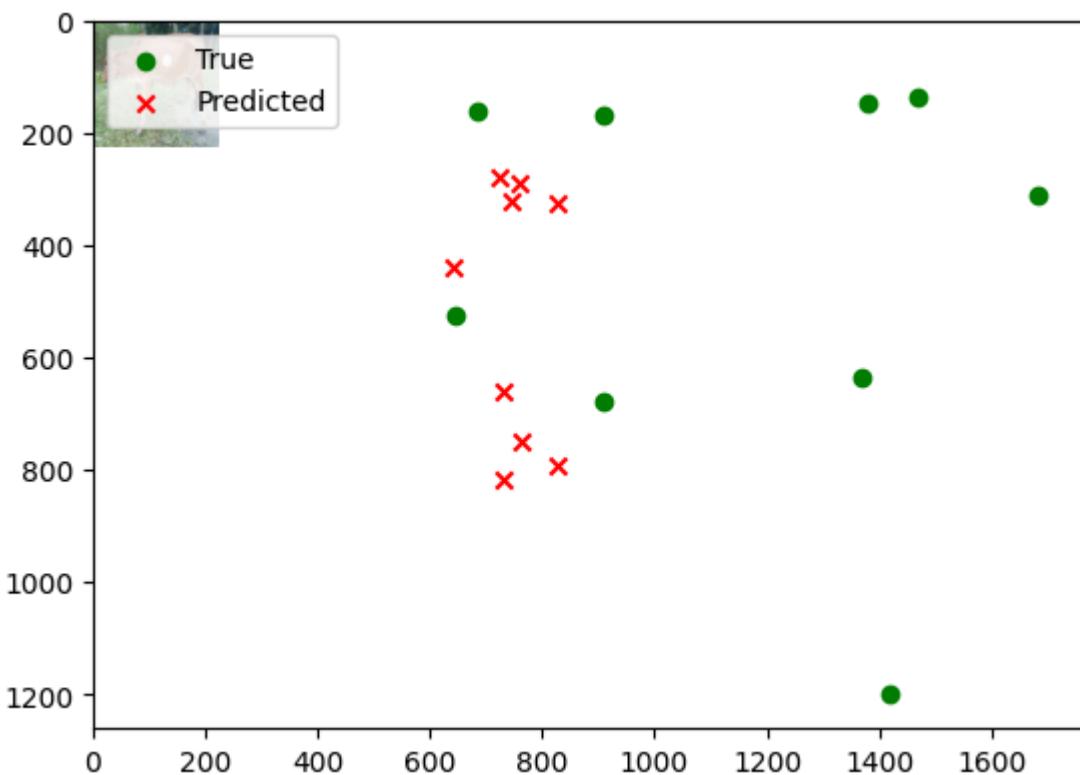


Image number: 109

True keypoints: [742. 254. 1683. 393. 708. 571. 948. 260. 947. 721. 136
1. 254.

1369. 669. 1475. 234. 1508. 1161.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[759.0173 327.66293]
[654.07104 444.8642]
[741.5815 670.72614]
[840.6647 329.98236]
[841.8066 806.274]
[774.3234 296.58246]
[777.4722 760.7026]
[737.7652 284.3019]
[742.2887 831.8386]]

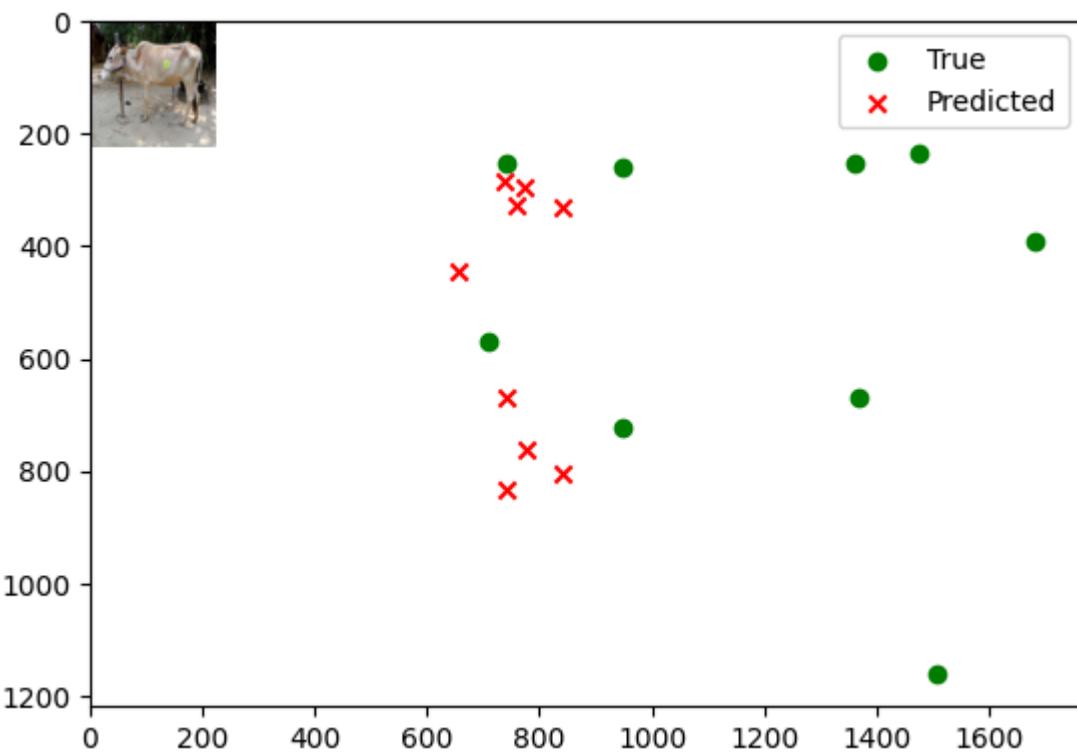


Image number: 110

True keypoints: [716. 304. 1671. 452. 699. 625. 905. 310. 922. 796. 136
7. 295.
1368. 772. 1469. 290. 1472. 1221.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[798.69165 346.87015]
[690.44617 469.07224]
[780.0833 705.96783]
[886.1787 349.28674]
[887.30273 849.3385]
[816.82245 315.29153]
[820.1289 801.2223]
[778.62463 302.76935]
[783.2092 876.86]]

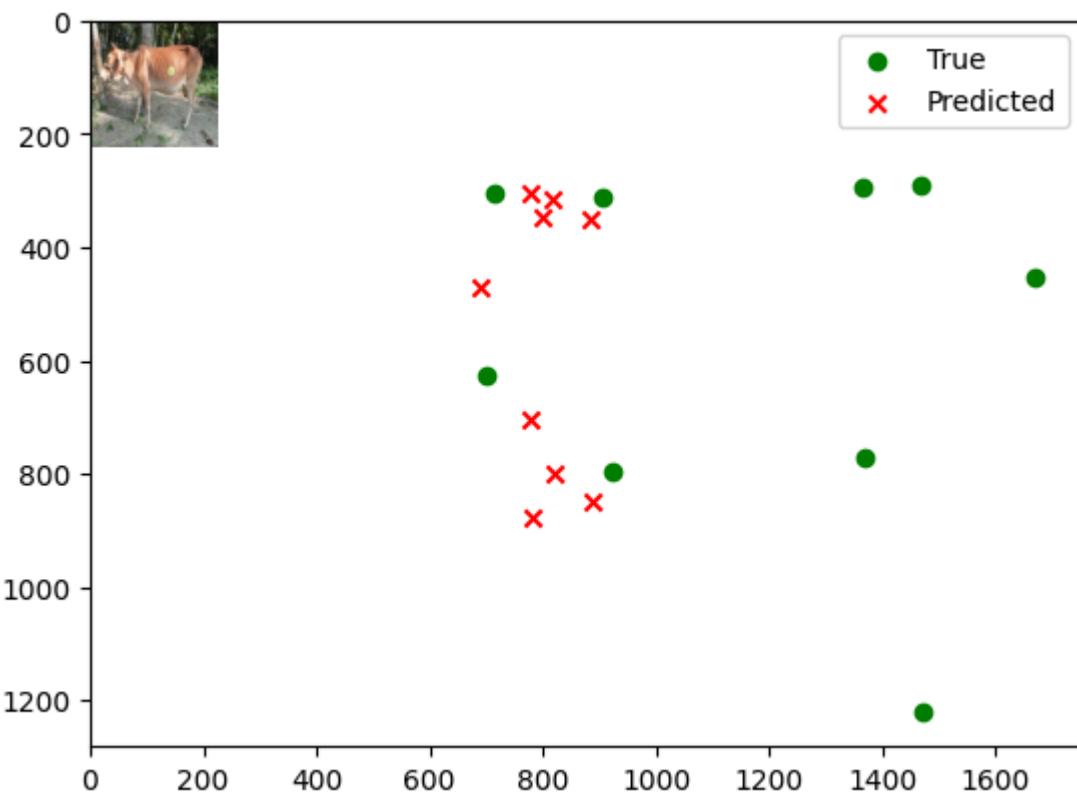


Image number: 111

True keypoints: [1216. 272. 135. 462. 1300. 609. 1014. 289. 1030. 817. 54
1. 226.

560. 765. 453. 216. 495. 1247.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[649.7881 278.92056]

[542.3519 380.6084]

[636.70135 577.13885]

[712.2401 279.07623]

[713.23486 685.7106]

[650.35516 245.79092]

[653.519 649.9525]

[616.5641 233.97878]

[620.98065 704.1319]]

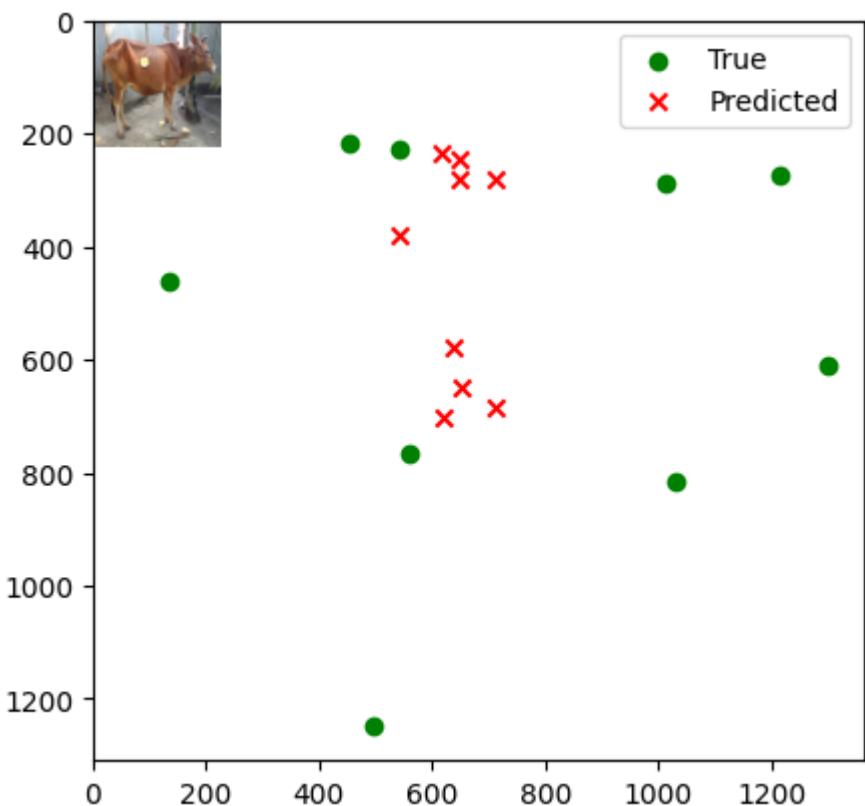


Image number: 112

True keypoints: [1209. 311. 246. 374. 1191. 664. 1026. 330. 1015. 761. 55
3. 267.

557. 693. 473. 244. 481. 1081.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[778.2859 336.86212]

[671.4707 456.5502]

[760.2871 687.83386]

[862.6107 339.22174]

[863.77954 827.1142]

[794.78375 305.43732]

[797.9851 780.31934]

[757.377 293.02036]

[761.95605 853.5698]]

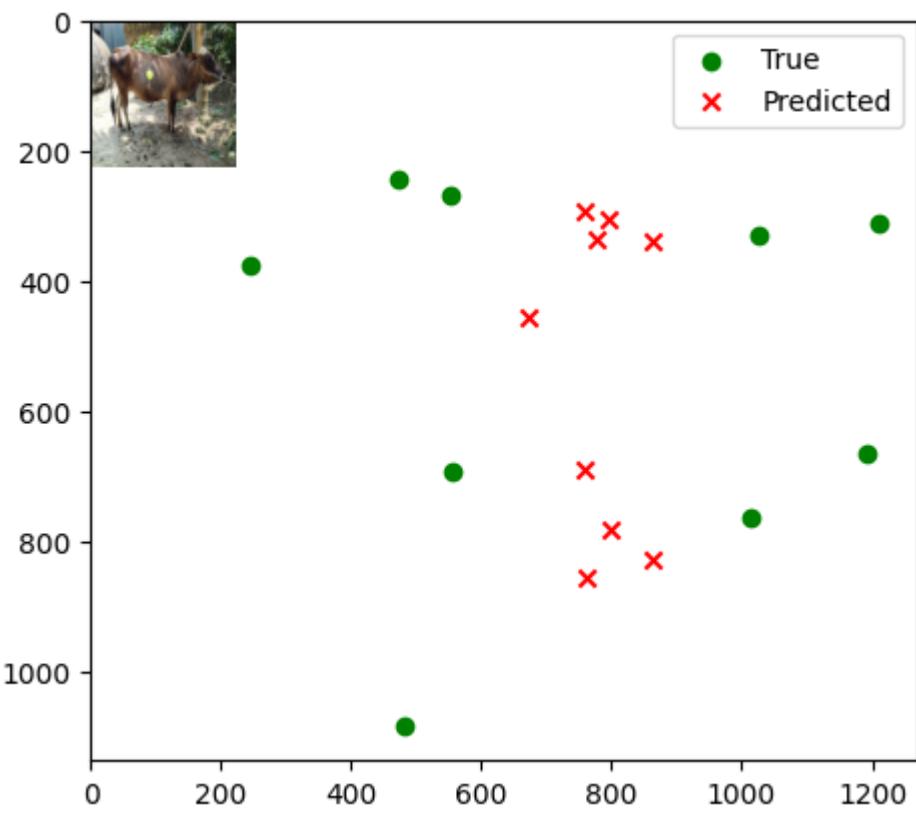


Image number: 113

True keypoints: [744. 334. 1791. 506. 755. 706. 974. 341. 996. 846. 145
2. 321.

1452. 794. 1554. 318. 1554. 1260.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[833.656 364.81097]

[723.127 490.95316]

[813.9666 737.21814]

[926.91693 367.2524]

[928.06506 887.64655]

[854.96857 333.22998]

[858.52826 837.2905]

[815.4633 320.62405]

[819.8917 917.0956]]

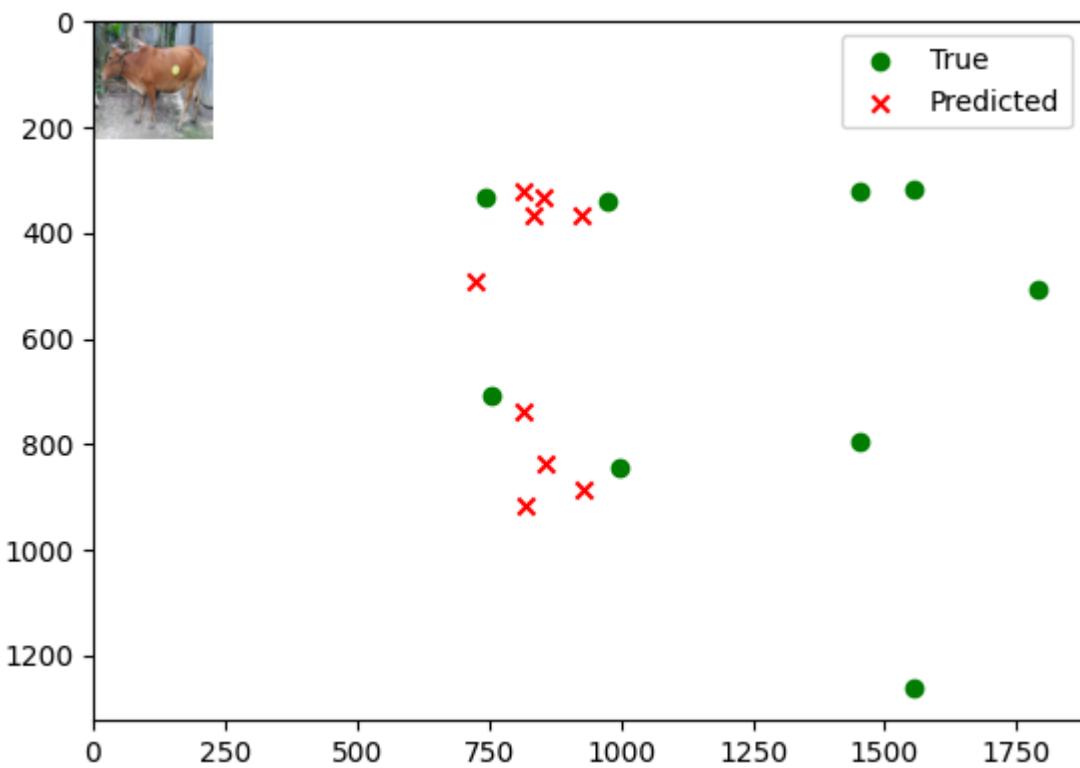


Image number: 114

True keypoints: [672. 363. 1648. 422. 686. 672. 879. 353. 894. 806. 132
1. 284.

1330. 753. 1405. 274. 1438. 1193.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[824.743 360.6223]
[715.0809 485.55472]
[805.28 729.28687]
[916.7716 363.02402]
[917.97705 878.05493]
[845.56494 329.24176]
[849.089 828.197]
[806.4407 316.71762]
[810.8493 907.0626]]

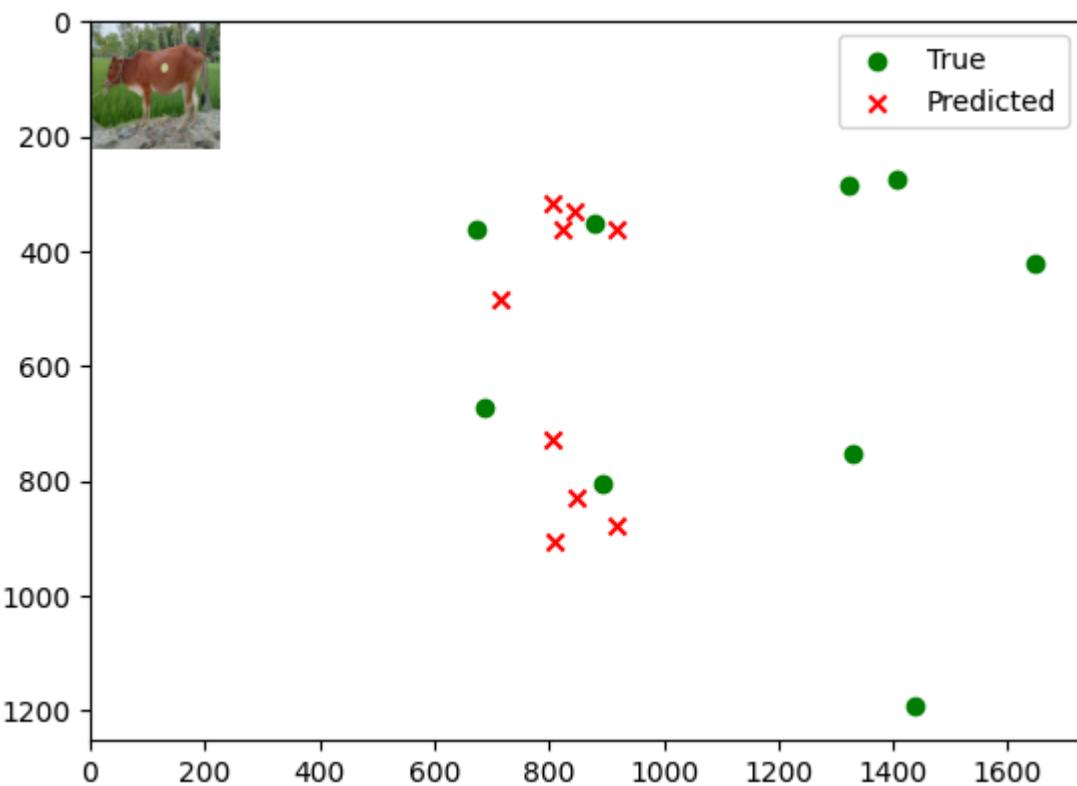


Image number: 115

True keypoints: [612. 401. 1492. 508. 568. 701. 821. 398. 828. 855. 124 0. 368.

1248. 769. 1297. 361. 1311. 1272.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[828.28174 361.62747]

[717.82263 487.3866]

[808.78625 732.35583]

[920.37354 364.07123]

[921.47675 881.5941]

[848.76294 329.81607]

[852.22986 831.616]

[809.3865 317.15152]

[813.9478 910.6722]]

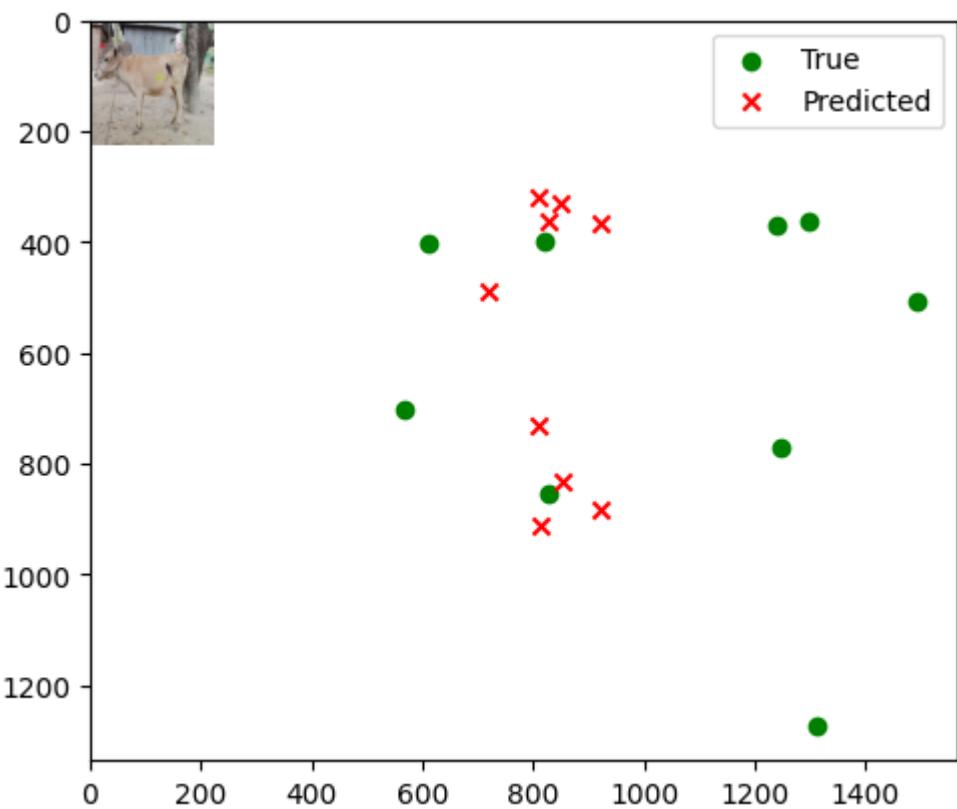


Image number: 116

True keypoints: [1189. 339. 329. 492. 1244. 634. 1022. 369. 1045. 801. 59. 4. 362.

605. 766. 509. 352. 516. 1262.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[804.9134 350.25864]

[696.2014 473.0471]

[786.0876 711.5785]

[893.4612 352.647]

[894.618 856.18176]

[823.6411 318.71722]

[827.00916 807.6831]

[785.2016 306.1849]

[789.7304 884.06525]]

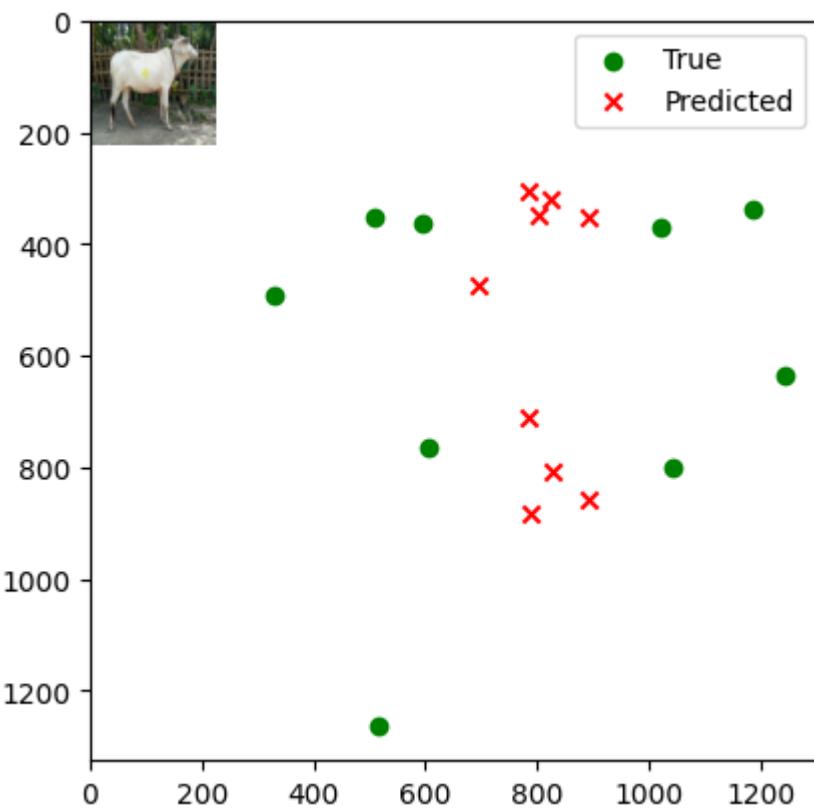


Image number: 117

True keypoints: [1233. 320. 150. 340. 1246. 636. 1016. 289. 1014. 786. 50. 6. 209.

520. 691. 407. 198. 456. 1277.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[709.68396 305.99805]

[602.7763 416.0157]

[694.297 628.72876]

[782.44354 307.2073]

[783.50684 751.7021]

[717.82635 273.76398]

[721.0314 710.7477]

[682.38794 261.67847]

[686.86774 773.92664]]

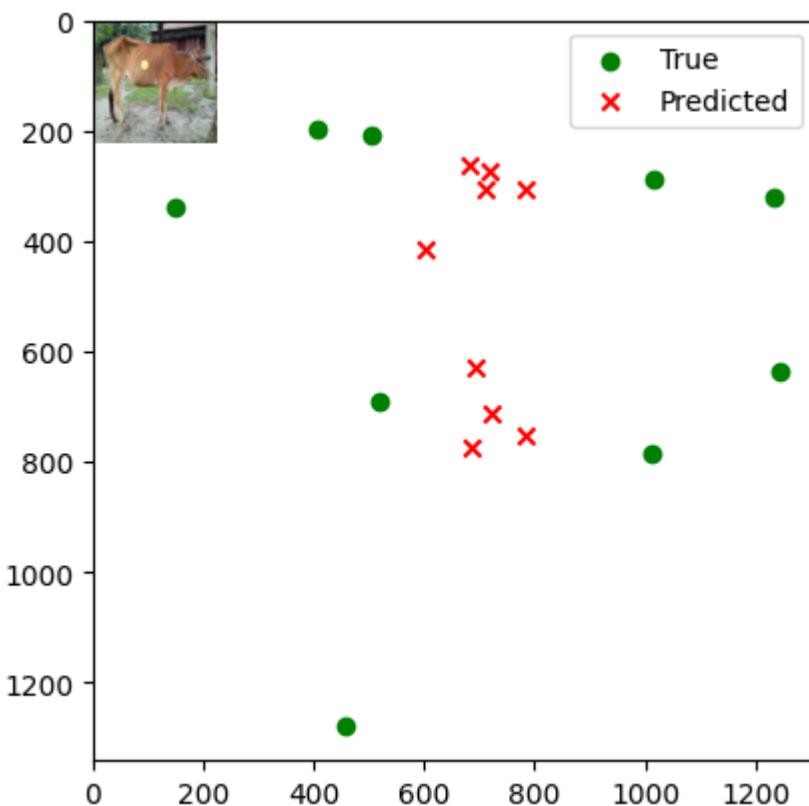


Image number: 118

True keypoints: [810. 408. 1720. 532. 764. 723. 978. 398. 994. 874. 142
4. 383.

1427. 812. 1505. 370. 1523. 1281.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[839.61975 367.0597]

[728.0343 494.2482]

[819.7896 742.42035]

[933.2809 369.52908]

[934.3768 893.8434]

[860.7798 335.03284]

[864.2853 843.16284]

[820.90594 322.29327]

[825.4887 923.4564]]

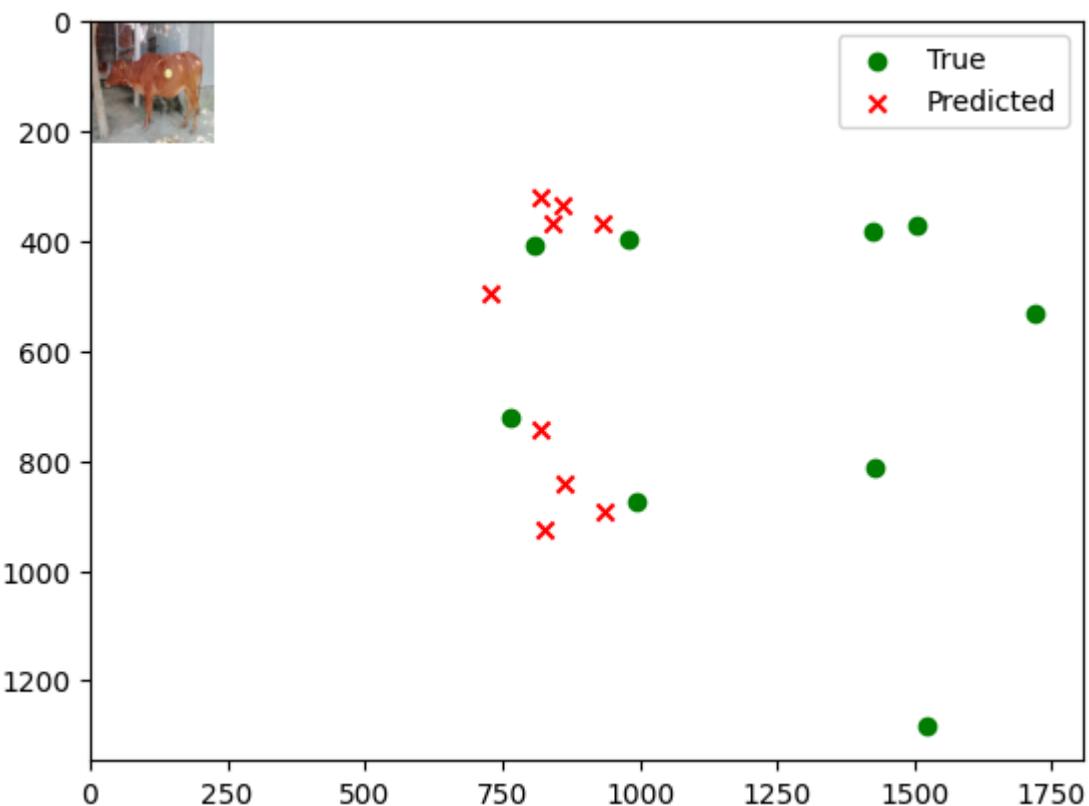


Image number: 119

True keypoints: [628. 326. 1536. 432. 598. 635. 805. 321. 821. 783. 125
2. 289.

1255. 689. 1328. 286. 1352. 1271.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[786.8277 341.18256]

[679.37976 461.8249]

[768.56433 695.4338]

[872.5029 343.5541]

[873.6973 836.44696]

[804.04004 309.7223]

[807.2962 789.0925]

[766.2952 297.28412]

[770.86566 863.33484]]

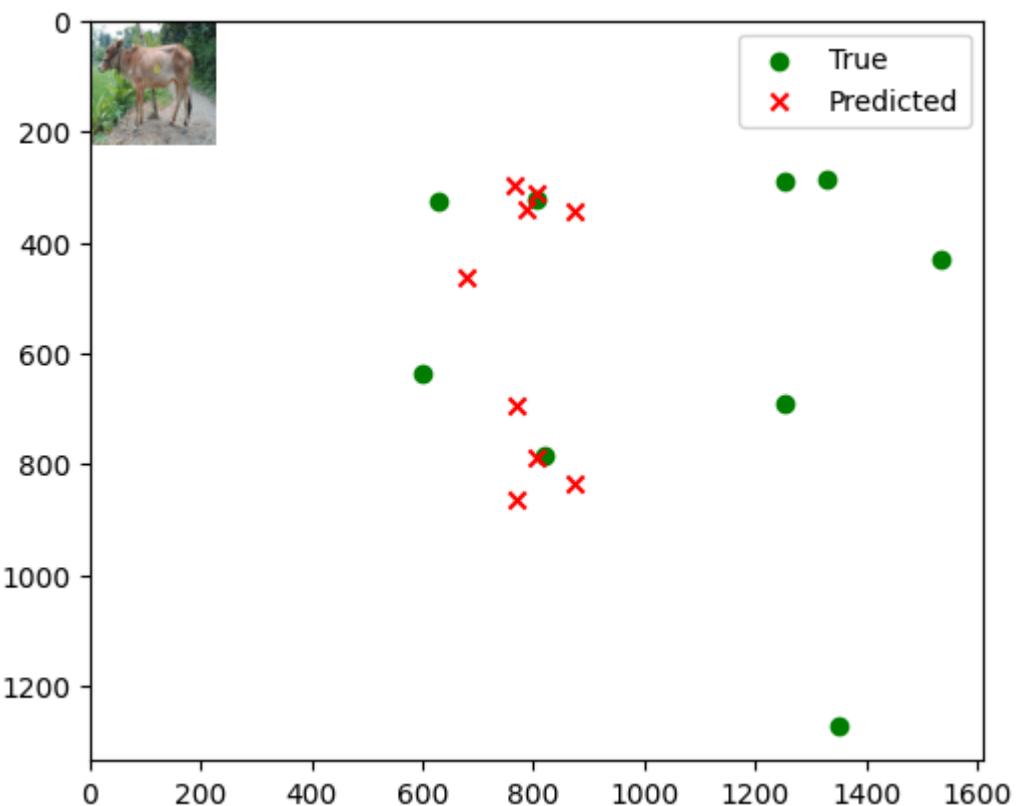


Image number: 120

True keypoints: [697. 320. 1749. 411. 656. 667. 877. 309. 884. 822. 138
8. 266.

1382. 762. 1527. 238. 1549. 1294.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[792.5433 343.561]

[684.55206 465.17267]

[774.14746 700.4662]

[878.9103 345.99976]

[880.01465 842.51666]

[809.95483 311.89304]

[813.22925 794.84845]

[771.9674 299.3788]

[776.5851 869.68024]]

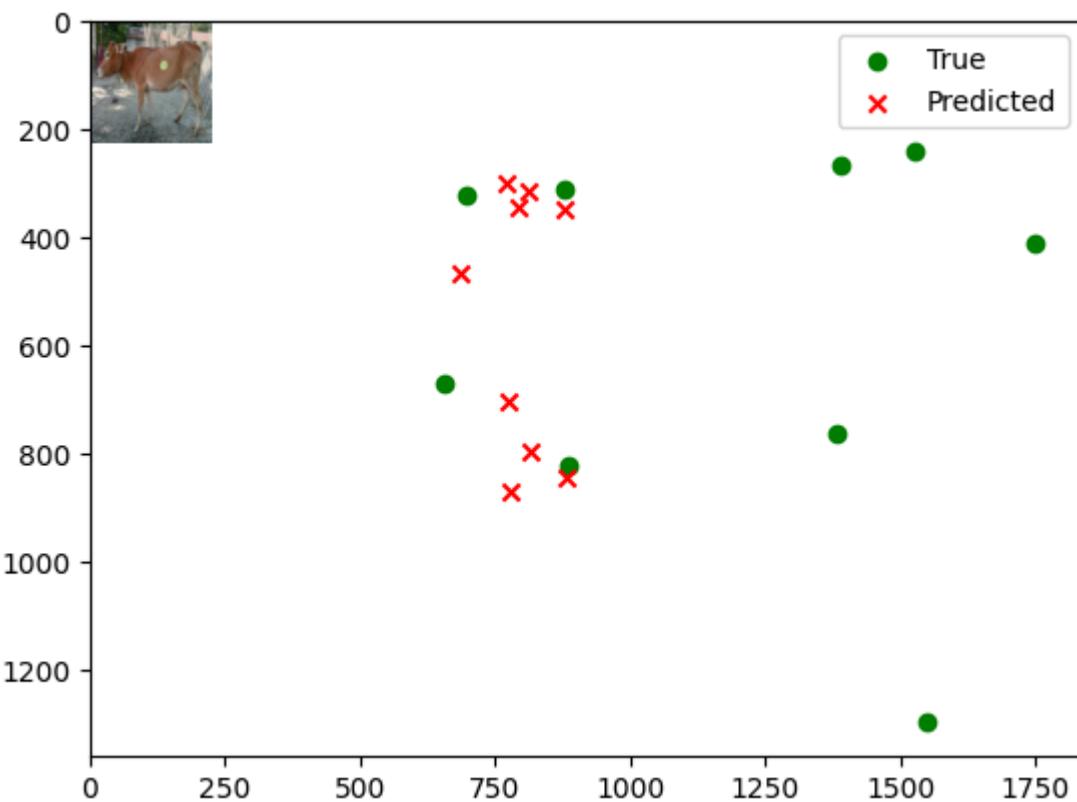


Image number: 121

True keypoints: [1207. 303. 228. 340. 1237. 623. 1024. 289. 1038. 774. 60. 8. 252.]

621. 702. 465. 221. 513. 1291.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[731.3173 314.7813]

[624.0825 428.30493]

[715.1648 647.1661]

[807.2407 316.45767]

[808.2662 775.1476]

[741.5576 282.45422]

[744.6804 732.4003]

[705.41486 270.1495]

[710.07764 798.59174]]

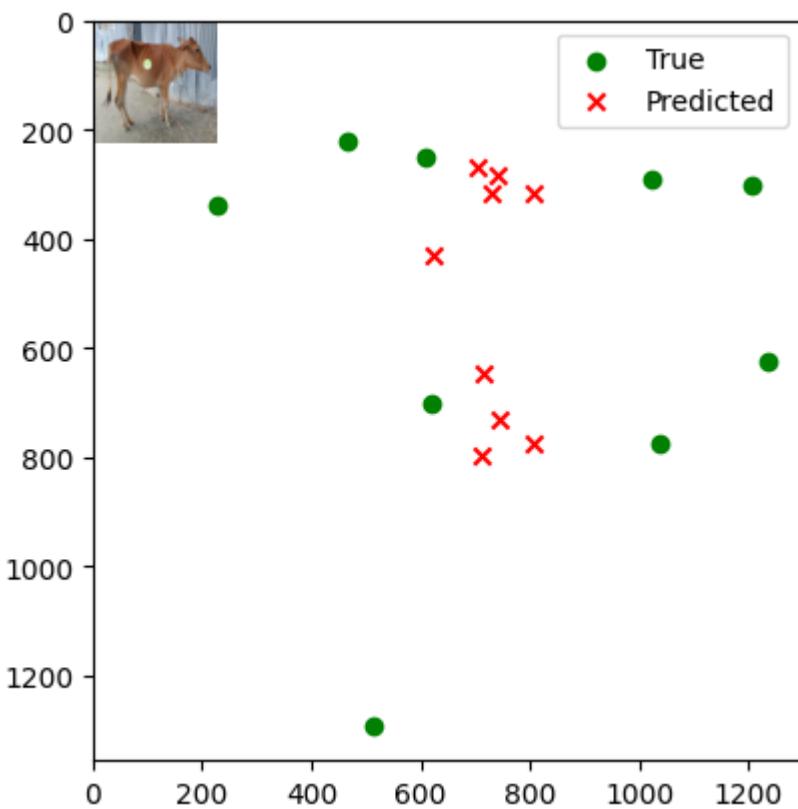


Image number: 122

True keypoints: [650. 314. 1759. 373. 653. 628. 887. 287. 913. 781. 138
8. 209.

1403. 692. 1493. 195. 1535. 1205.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[765.21045 330.81253]

[659.6644 448.7127]

[747.6081 676.2903]

[847.78613 333.13165]

[848.9496 813.0159]

[780.94653 299.67322]

[784.13153 767.0711]

[744.12665 287.3819]

[748.63306 838.88696]]

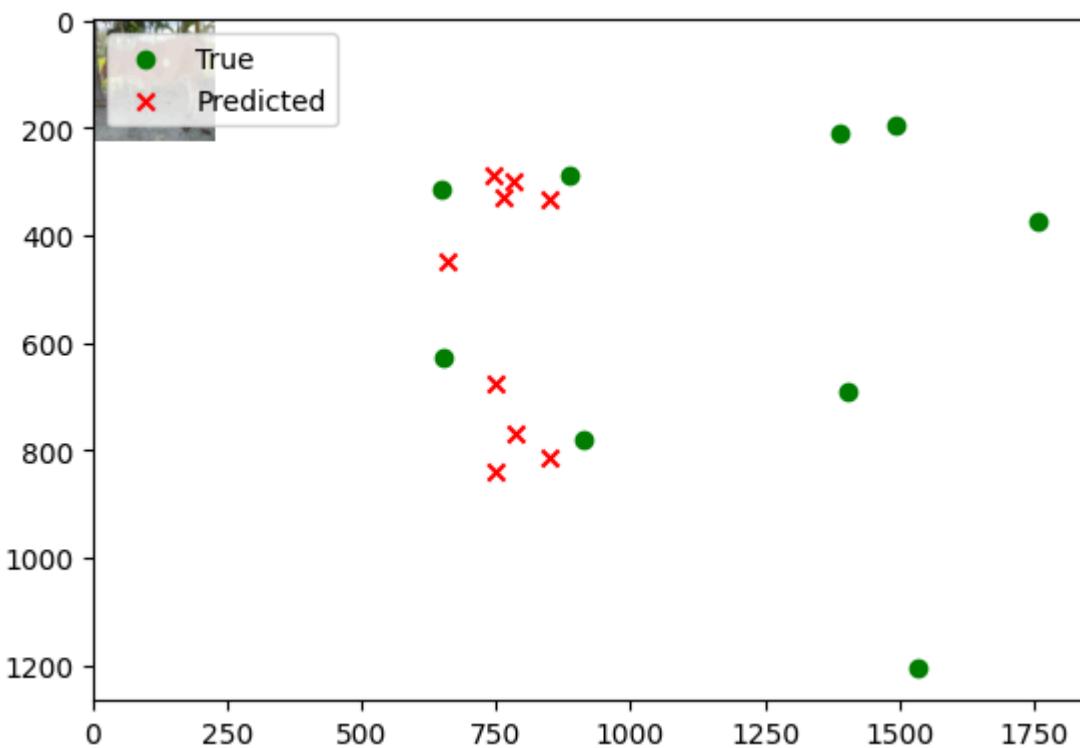


Image number: 123

True keypoints: [749. 331. 1702. 446. 750. 679. 982. 319. 1010. 808. 139
1. 263.

1395. 716. 1500. 256. 1506. 1267.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[767.3353 331.0858]

[660.6385 449.61426]

[749.7653 678.1089]

[849.5764 333.40967]

[850.69824 814.9326]

[782.3741 299.4086]

[785.4874 768.9806]

[745.2744 286.97165]

[749.9355 840.68286]]

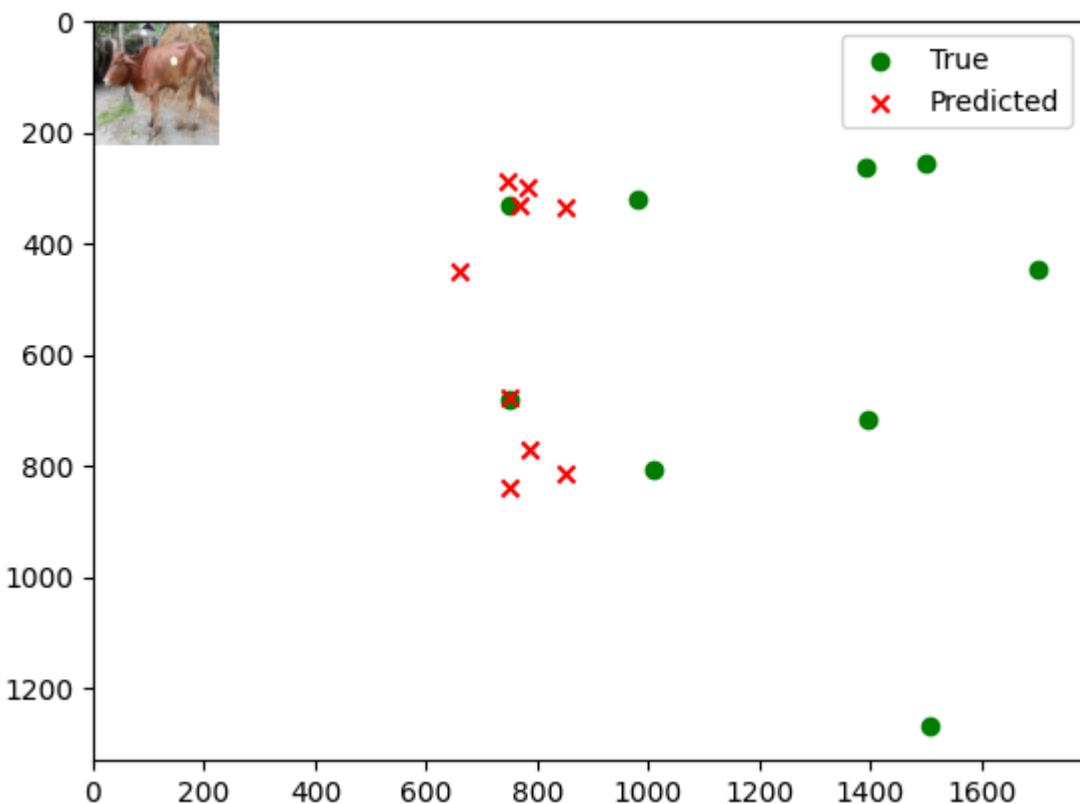


Image number: 124

True keypoints: [704. 334. 1726. 383. 729. 672. 945. 304. 971. 792. 141
7. 262.

1421. 718. 1499. 251. 1516. 1285.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[793.5669 343.78528]

[685.05566 465.64038]

[775.16235 701.3477]

[879.79987 346.19373]

[880.92676 843.48315]

[810.7184 311.9159]

[813.93304 795.7678]

[772.59985 299.334]

[777.2777 870.5824]]

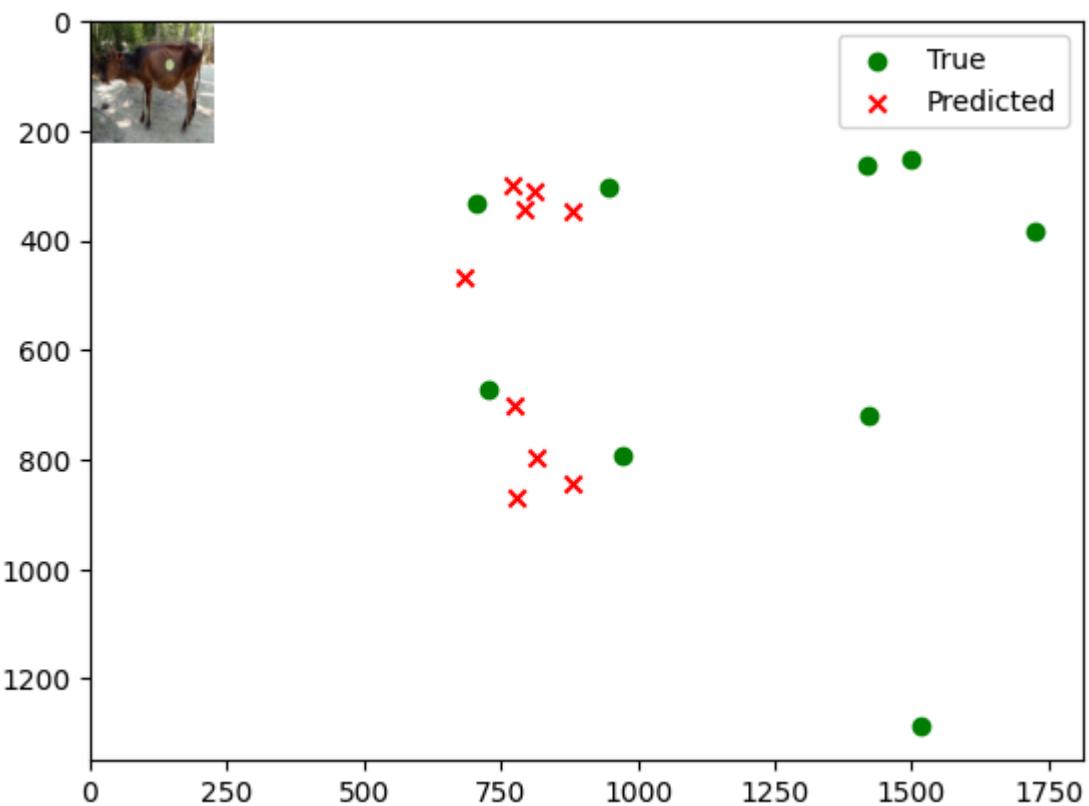


Image number: 125

True keypoints: [1179. 349. 218. 411. 1187. 682. 981. 373. 974. 831. 53. 2. 305.

518. 747. 388. 291. 412. 1152.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[800.69226 348.09787]

[691.1484 470.4679]

[782.17114 708.07227]

[888.11646 350.3349]

[889.1727 851.2719]

[818.19226 316.07898]

[821.54456 803.3365]

[779.73114 303.4916]

[784.33466 878.7318]]

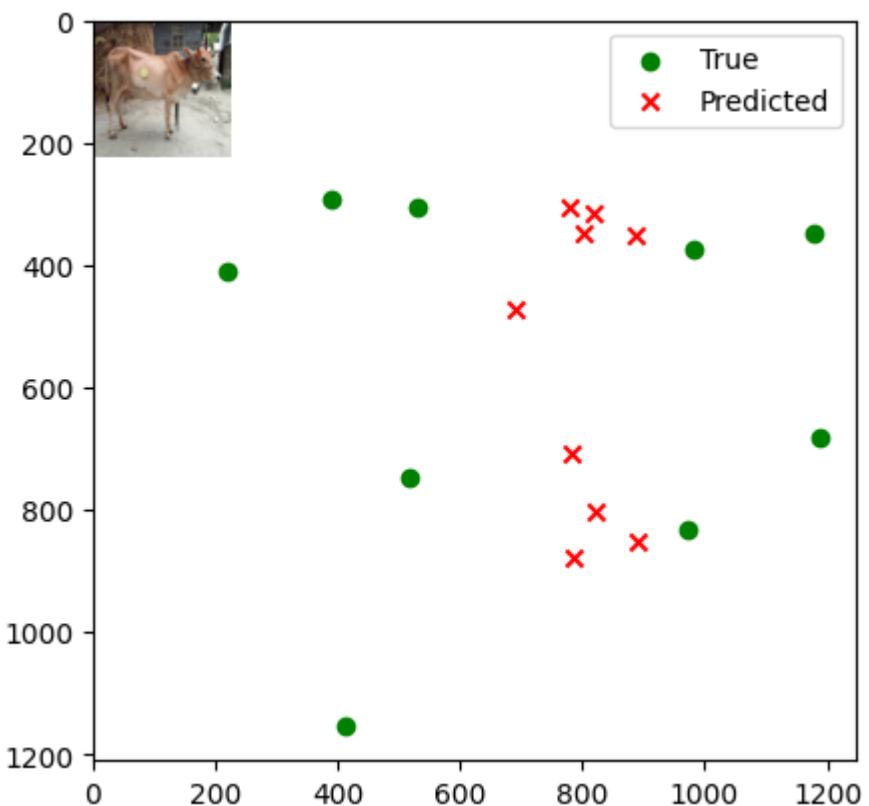


Image number: 126

True keypoints: [1223. 353. 324. 434. 1222. 627. 1007. 333. 1012. 782. 61. 2. 279.

628. 729. 517. 271. 554. 1185.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[802.47327 348.5398]

[693.0753 471.27524]

[783.83234 709.4095]

[890.0857 350.88226]

[891.22375 853.189]

[820.23267 316.5796]

[823.53253 804.9811]

[781.7362 303.96124]

[786.38403 880.7229]]

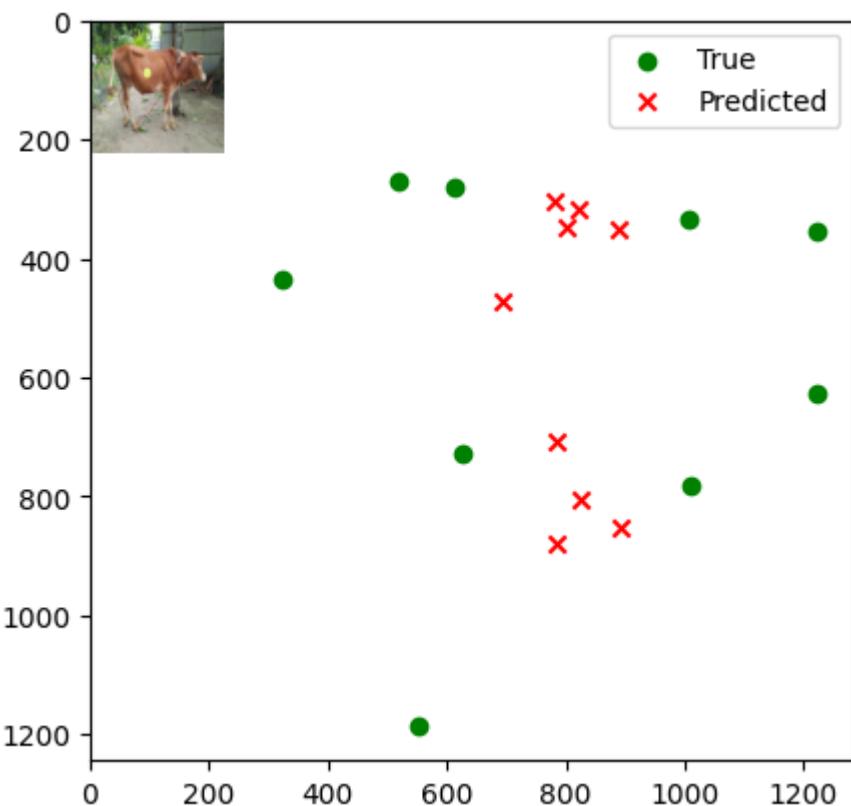


Image number: 127

True keypoints: [638. 313. 1705. 382. 633. 675. 837. 327. 862. 832. 136
0. 303.

1368. 774. 1501. 300. 1532. 1250.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[738.5268 318.21777]

[633.81036 432.61713]

[721.81714 652.9085]

[816.74023 320.26172]

[817.92084 783.78754]

[751.5335 286.9979]

[754.6156 739.8532]

[715.56287 274.85303]

[720.03503 808.1308]]

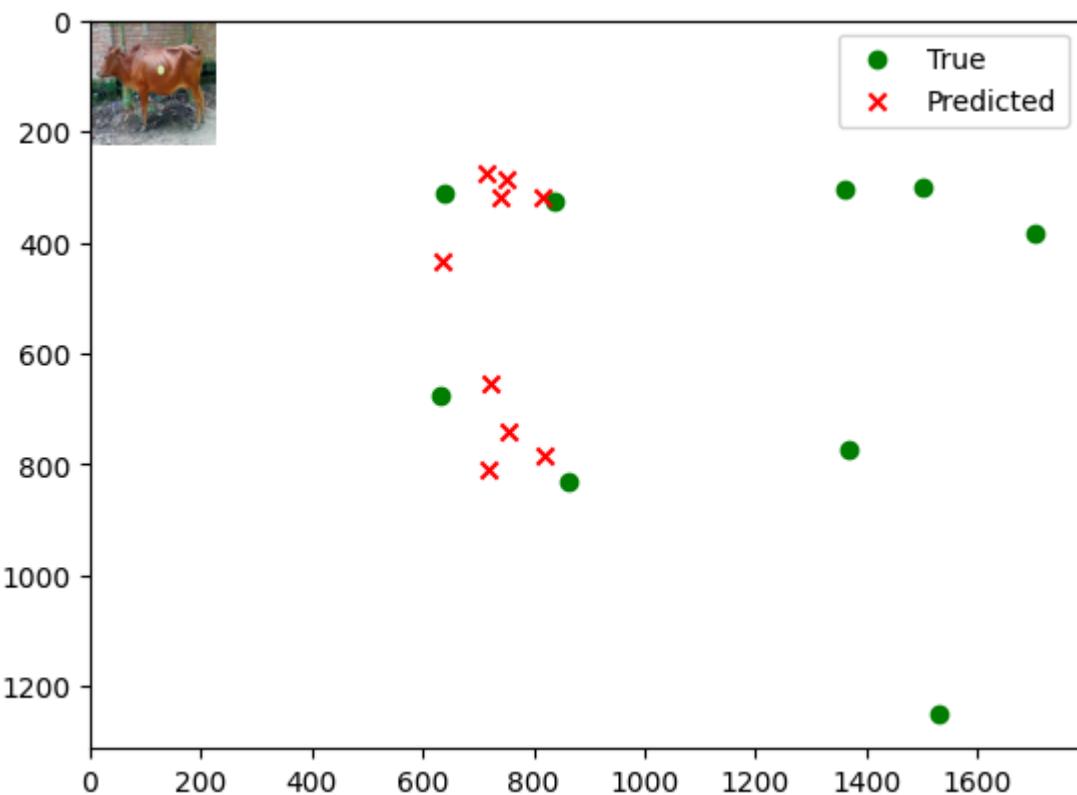


Image number: 128

True keypoints: [1237. 231. 113. 287. 1203. 609. 898. 195. 900. 745. 43
1. 158.]

458. 707. 337. 150. 398. 1314.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[614.11304 263.5135]

[509.26532 359.822]

[602.0241 545.9737]

[671.8452 263.31628]

[672.9639 647.274]

[612.47345 231.14009]

[615.644 614.0561]

[580.11633 219.75674]

[584.23596 664.05524]]

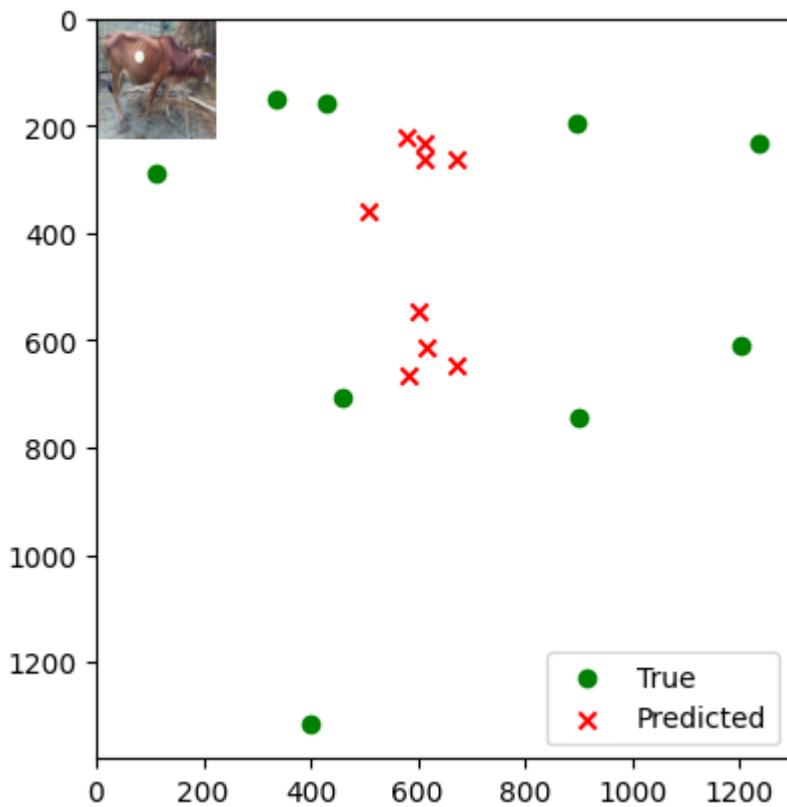


Image number: 129

True keypoints: [673. 424. 1533. 554. 656. 726. 841. 435. 856. 858. 125
6. 402.

1255. 819. 1328. 390. 1340. 1285.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[837.0301 365.88718]

[725.86676 492.73505]

[817.2782 740.1449]

[930.4309 368.36548]

[931.51025 891.0907]

[858.13116 333.9494]

[861.6563 840.5924]

[818.4123 321.26028]

[822.98804 920.6372]]

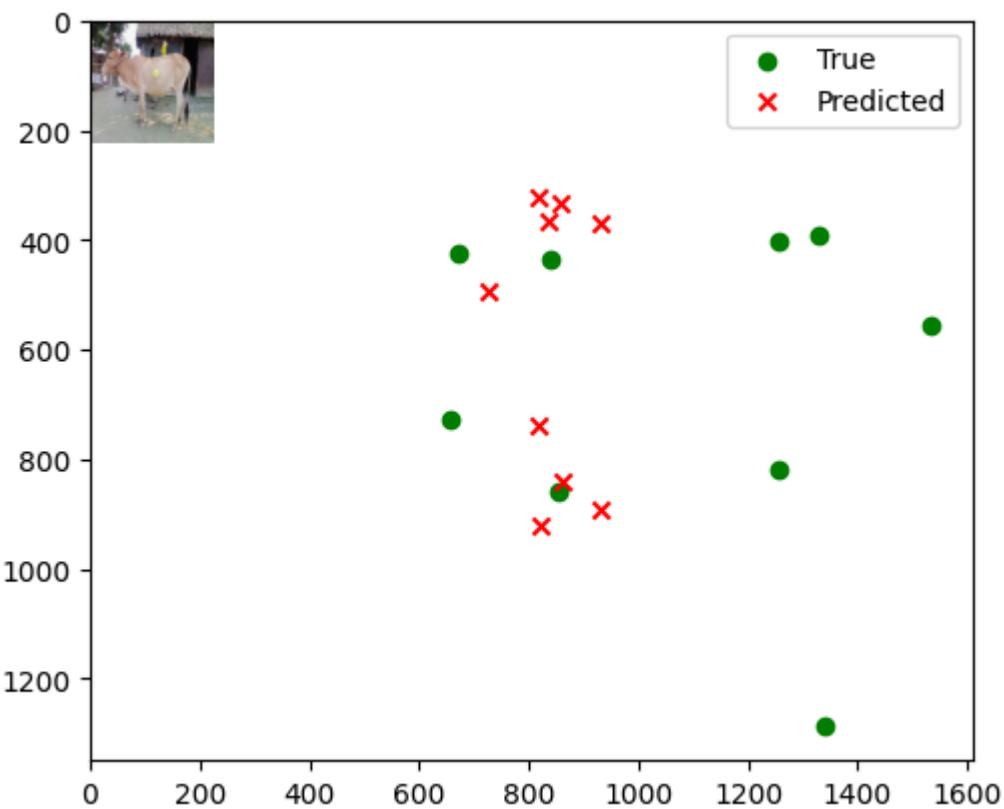


Image number: 130

True keypoints: [677. 232. 1764. 421. 616. 599. 862. 262. 879. 775. 137
3. 255.

1377. 756. 1485. 230. 1491. 1273.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[745.5974 320.9451]

[641.51227 436.56198]

[728.6092 658.8052]

[825.0922 323.2365]

[826.171 791.5636]

[759.6674 289.85925]

[762.75543 746.93976]

[723.6109 277.61514]

[728.1831 816.4252]]

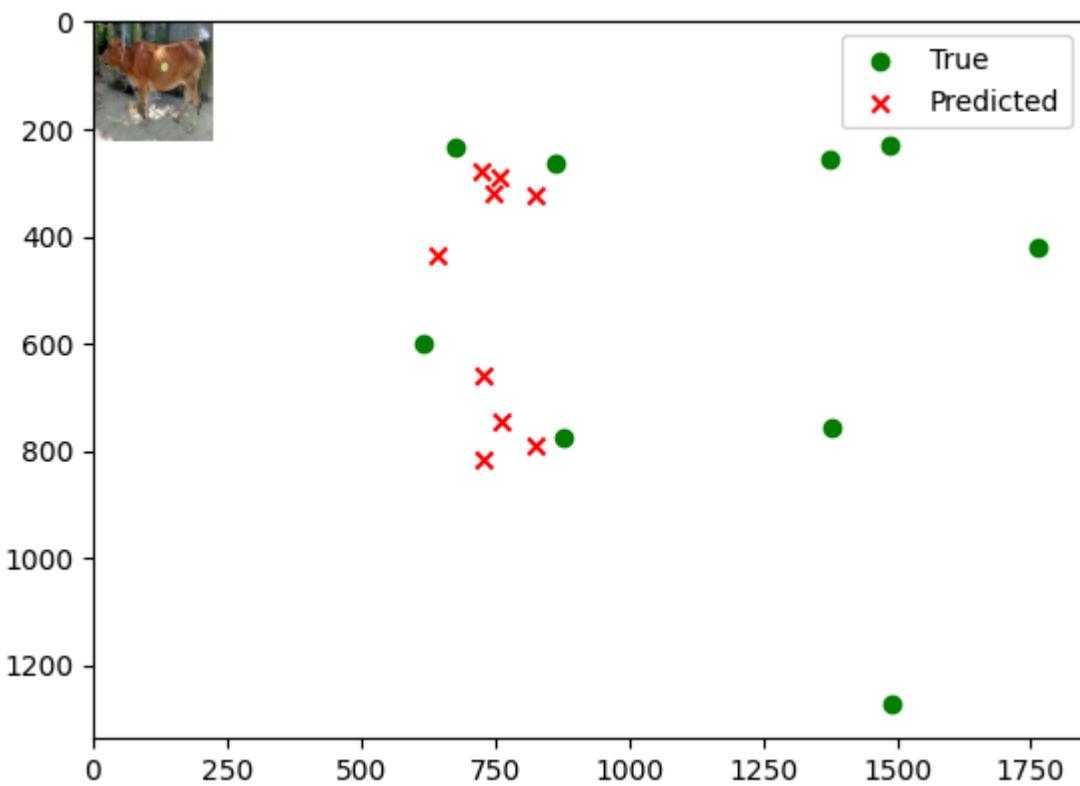


Image number: 131

True keypoints: [744. 180. 1649. 350. 625. 554. 893. 220. 914. 719. 134
0. 185.

1352. 661. 1437. 181. 1459. 1154.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[745.4082 321.48532]

[641.7489 436.75684]

[728.3269 658.69617]

[825.2893 323.75958]

[826.458 791.6248]

[760.00574 290.73074]

[763.1395 746.9276]

[724.0325 278.61545]

[728.48267 816.59045]]

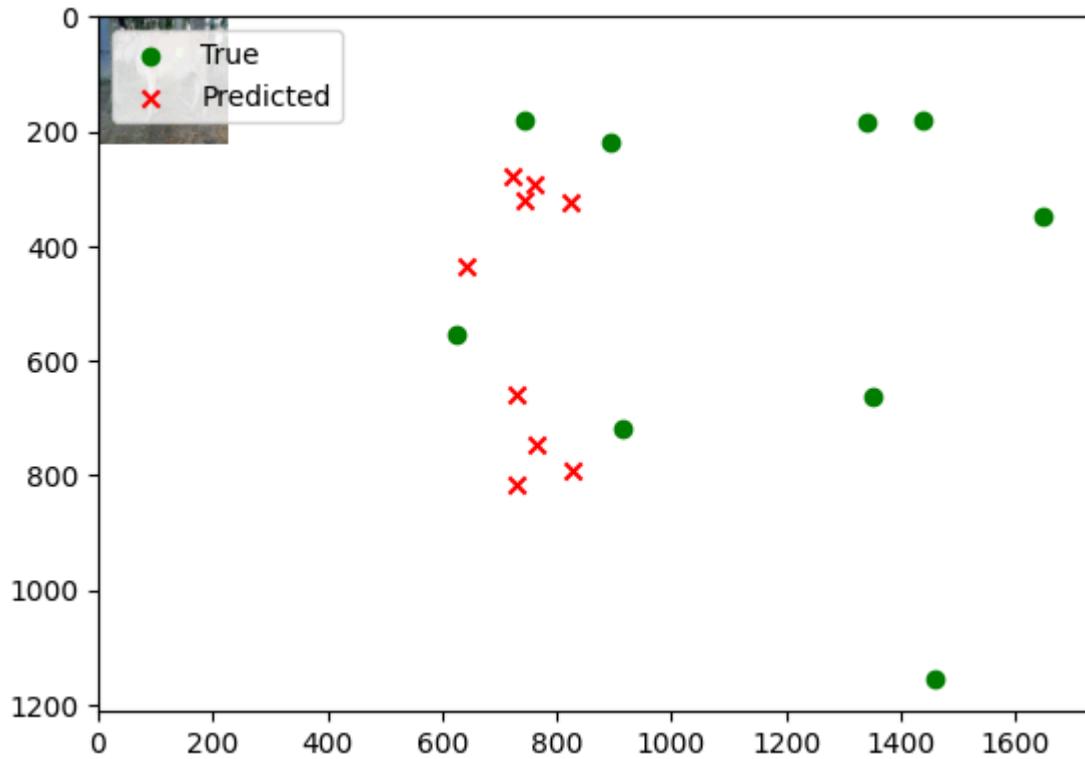


Image number: 132

True keypoints: [1143. 284. 89. 388. 1180. 595. 928. 278. 924. 773. 448. 242.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[780.2095 337.80817]

[673.6953 457.745]

[762.16174 689.5142]

[865.0182 340.22937]

[866.1253 829.28467]

[797.0931 306.5027]

[800.3331 782.34375]

[759.7053 294.08707]

[764.27216 855.92377]]

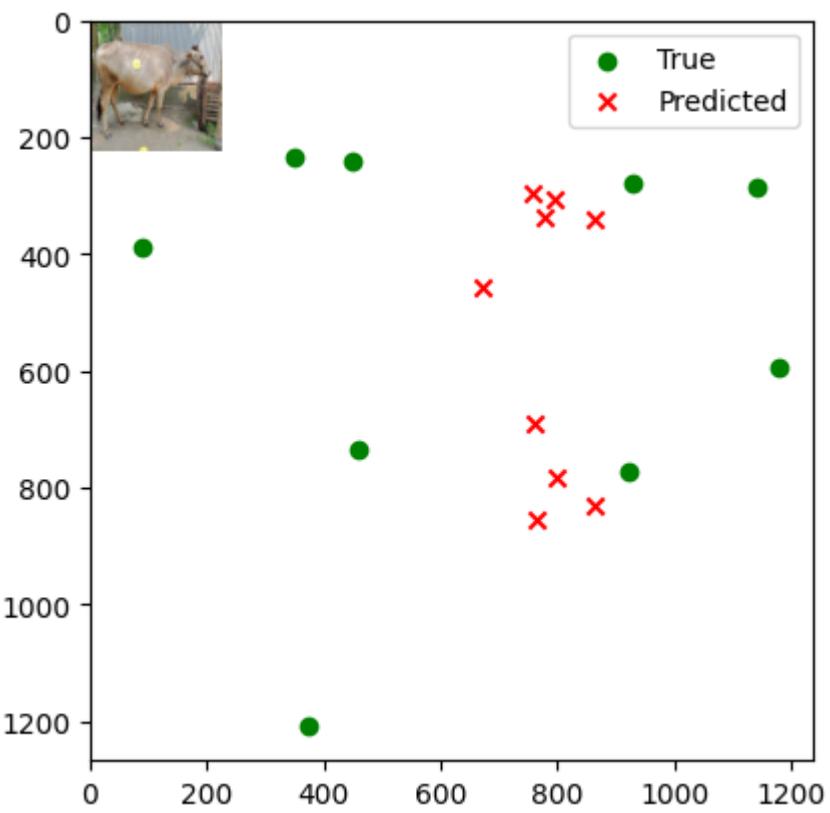


Image number: 133

True keypoints: [658. 266. 1635. 410. 675. 577. 889. 276. 901. 724. 132. 265.

1319. 701. 1400. 252. 1379. 1106.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[787.419 341.01743]

[679.7751 462.00452]

[769.1686 695.8976]

[872.9779 343.45258]

[874.108 836.92755]

[804.4232 309.39844]

[807.6762 789.59344]

[766.6338 296.90036]

[771.2556 863.834]]

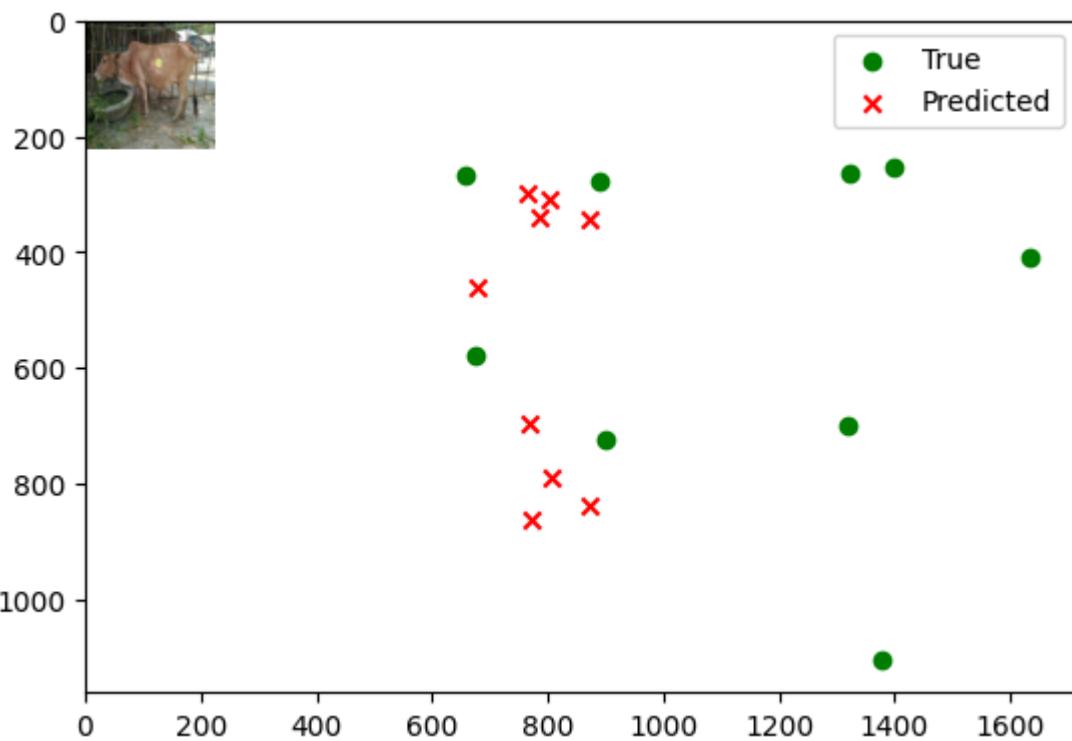


Image number: 134

True keypoints: [574. 422. 1500. 499. 553. 680. 779. 408. 796. 852. 121
0. 365.

1214. 792. 1276. 353. 1292. 1268.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[819.1203 357.29803]

[709.4089 481.8275]

[799.8712 724.2346]

[909.8884 359.7171]

[910.99554 871.6864]

[838.9841 325.62827]

[842.4024 822.2778]

[799.9835 313.03677]

[804.5196 900.31824]]

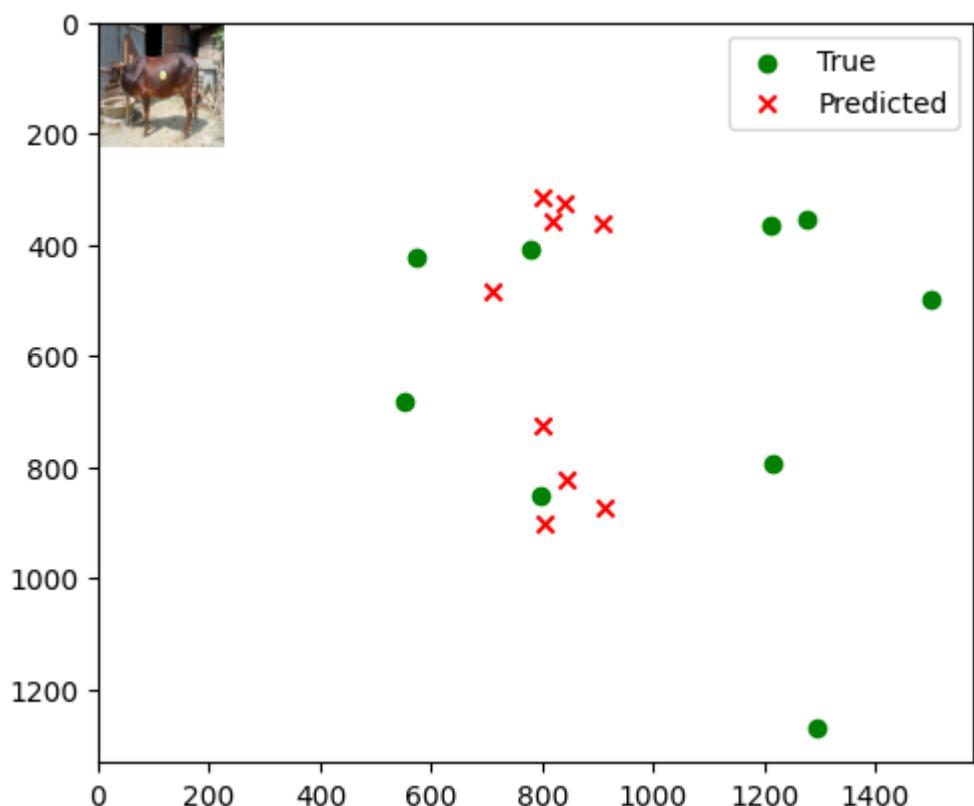


Image number: 135

True keypoints: [1123. 315. 134. 412. 1085. 645. 863. 311. 862. 794. 430. 276.]

436. 719. 375. 264. 385. 1198.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[772.5265 334.84195]]

predicted keypoints: [

[754.8569 683.2152]

[855.8158 336.94238]

[856.922 820.72156]

[850.922 820.72150]
[787.92017 303.14484]

[791.1659 774.66064]

[791.1659 774.66064]
 [750 5443 290 74896]

[750.5442 290.74896]
 [755 1018 846 75433]

[755.1018 846.75433]

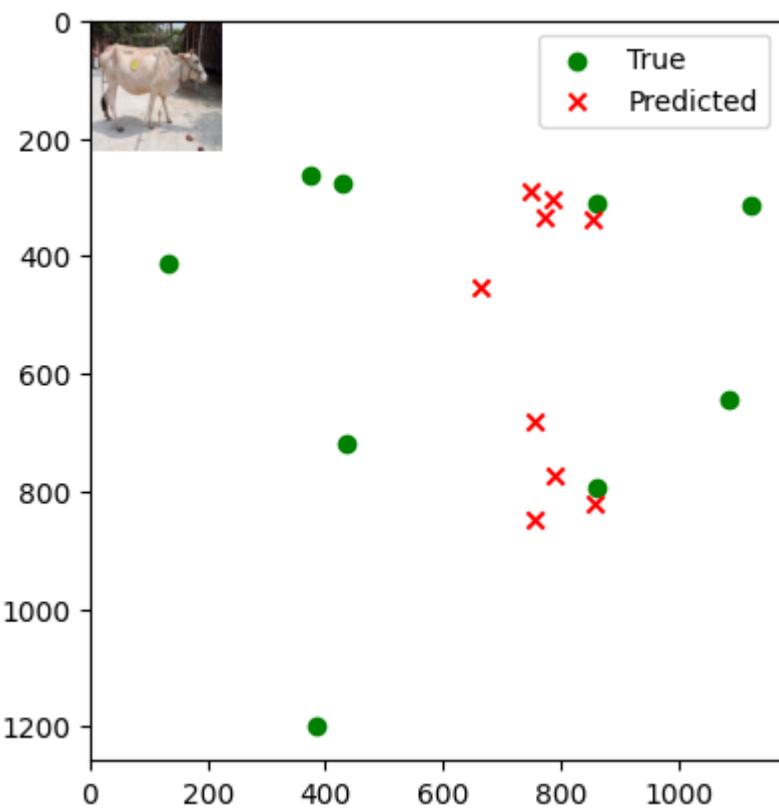


Image number: 136

True keypoints: [711. 350. 1688. 442. 630. 618. 904. 348. 886. 803. 135
8. 308.

1358. 720. 1473. 281. 1485. 1241.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[797.7146 345.8104]

[688.98224 468.17953]

[779.1758 705.0254]

[884.61066 348.24692]

[885.68896 847.99805]

[815.22205 313.90292]

[818.463 800.0185]

[776.9457 301.3013]

[781.64764 875.3342]]

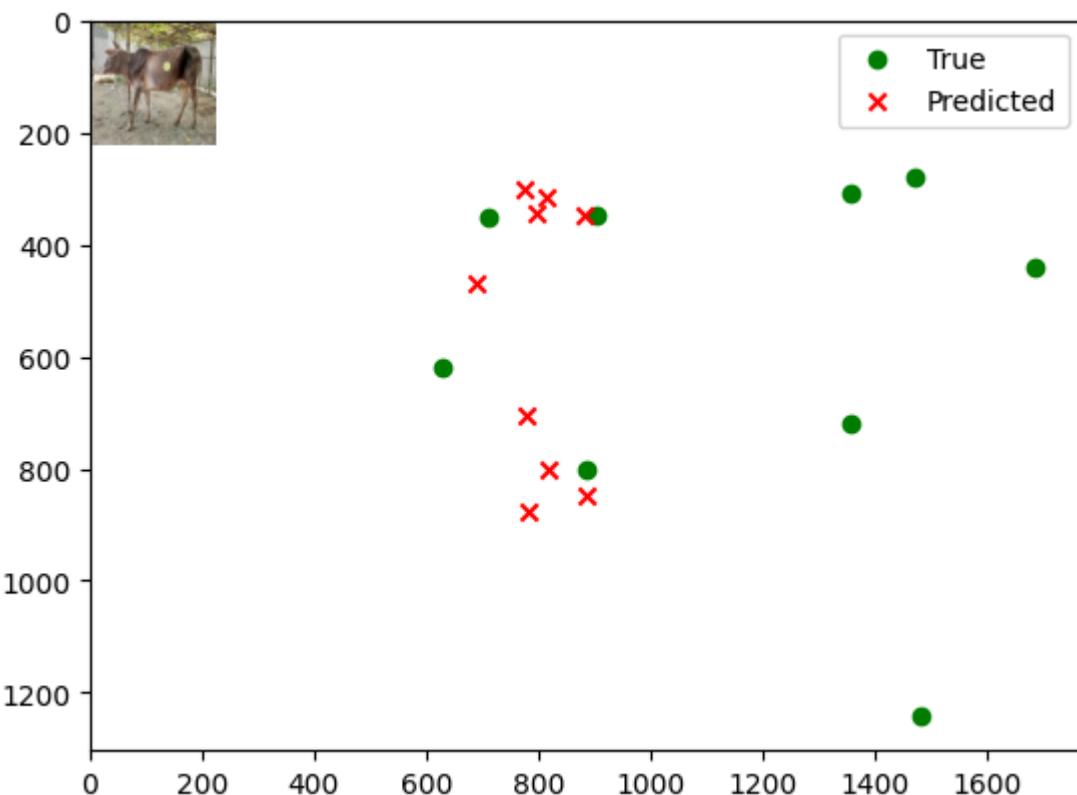


Image number: 137

True keypoints: [700. 309. 1721. 461. 632. 668. 898. 335. 906. 837. 137
5. 298.

1373. 745. 1446. 281. 1428. 1257.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[810.35626 352.0528]

[701.13654 475.97925]

[791.4338 716.248]

[899.41626 354.58032]

[900.4271 861.8458]

[829.1304 320.20154]

[832.486 813.0366]

[790.4477 307.5669]

[795.10913 889.92896]]

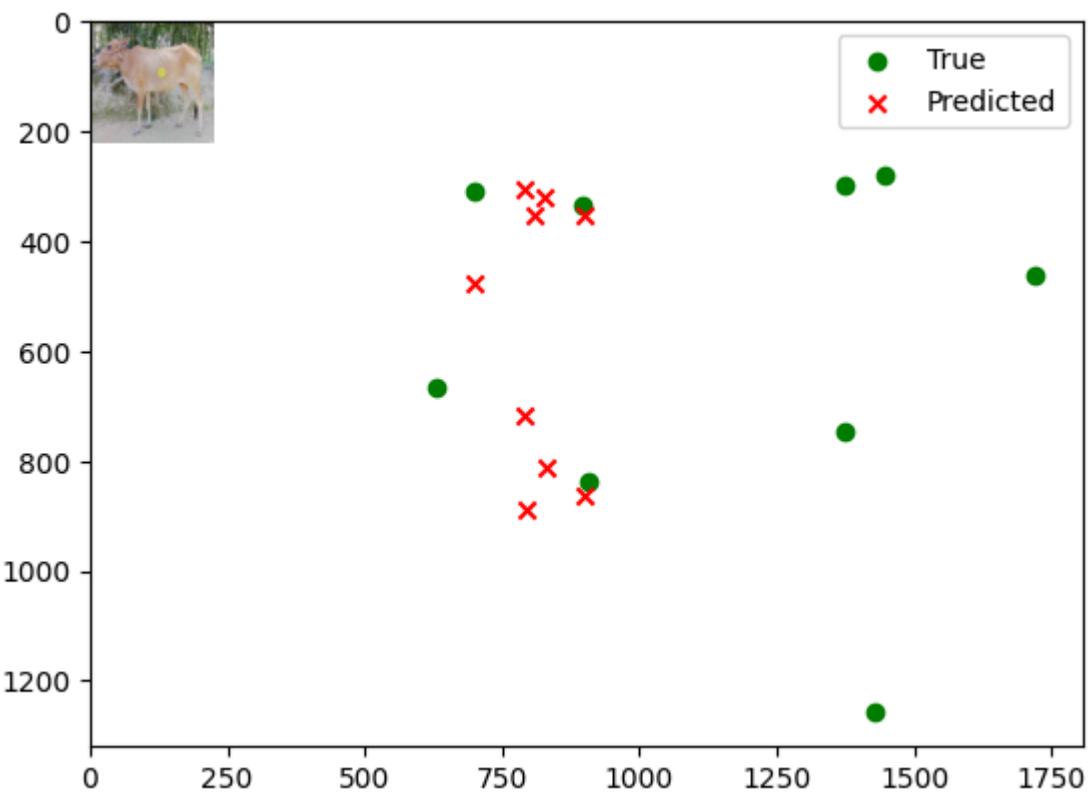


Image number: 138

True keypoints: [736. 391. 1664. 472. 742. 712. 926. 381. 952. 855. 137
7. 325.

1404. 772. 1437. 314. 1495. 1282.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[831.5179 363.6686]

[721.3045 489.60773]

[811.89185 735.2878]

[924.5018 366.10895]

[925.578 885.3217]

[852.7212 332.09756]

[856.26685 835.1063]

[813.3 319.4823]

[817.767 914.70374]]

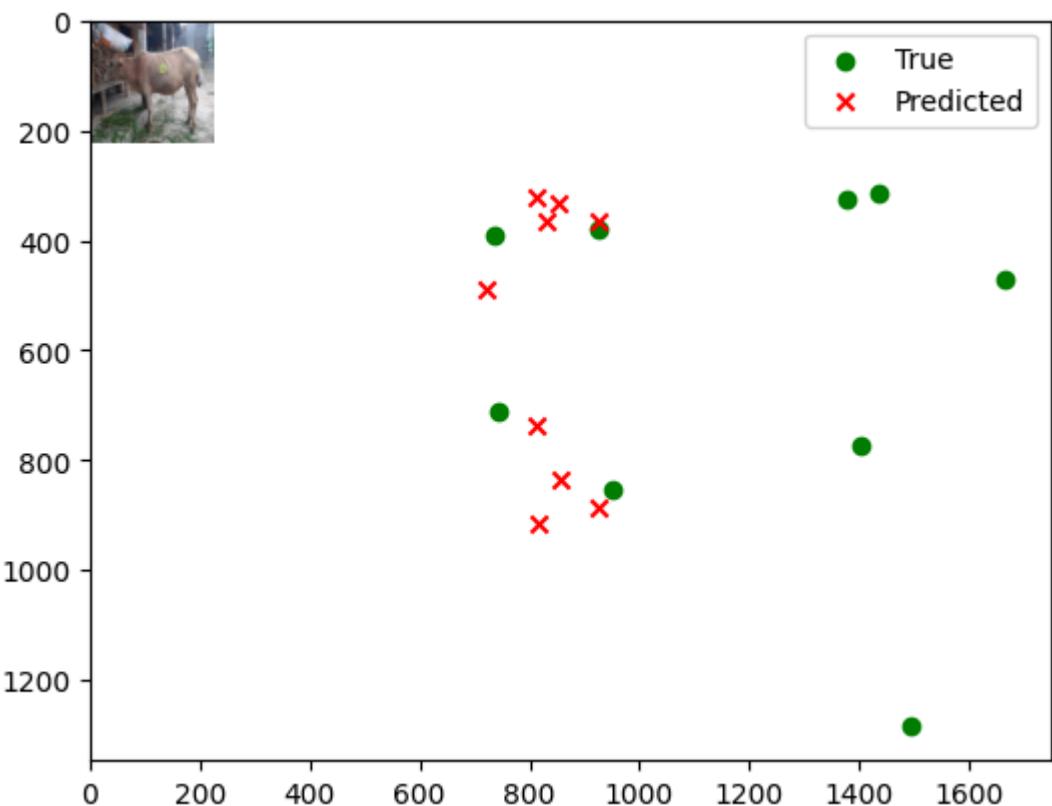


Image number: 139

True keypoints: [750. 377. 1653. 547. 714. 708. 922. 403. 930. 869. 138
5. 374.

1389. 814. 1437. 368. 1438. 1320.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[870.33685 381.88623]

[756.0875 513.00055]

[849.6415 769.743]

[968.47644 384.40936]

[969.5359 927.11786]

[893.56885 349.38834]

[897.2051 874.5858]

[852.4137 336.45352]

[857.041 958.24603]]

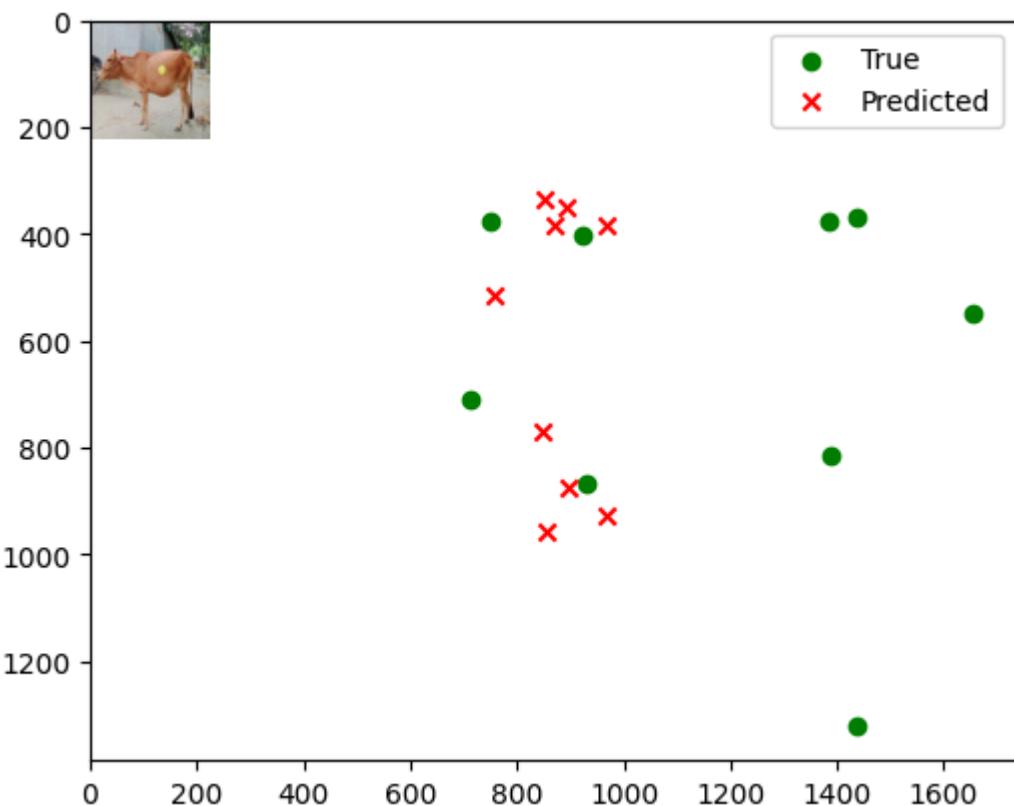


Image number: 140

True keypoints: [1149. 357. 144. 458. 1104. 725. 970. 366. 950. 854. 47
6. 303.

485. 772. 391. 287. 425. 1270.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[811.69415 353.86972]

[701.926 477.3767]

[792.7558 717.81366]

[901.1714 356.15338]

[902.2931 863.4956]

[830.6275 322.08124]

[834.0401 814.7365]

[791.83057 309.52737]

[796.33203 891.66125]]

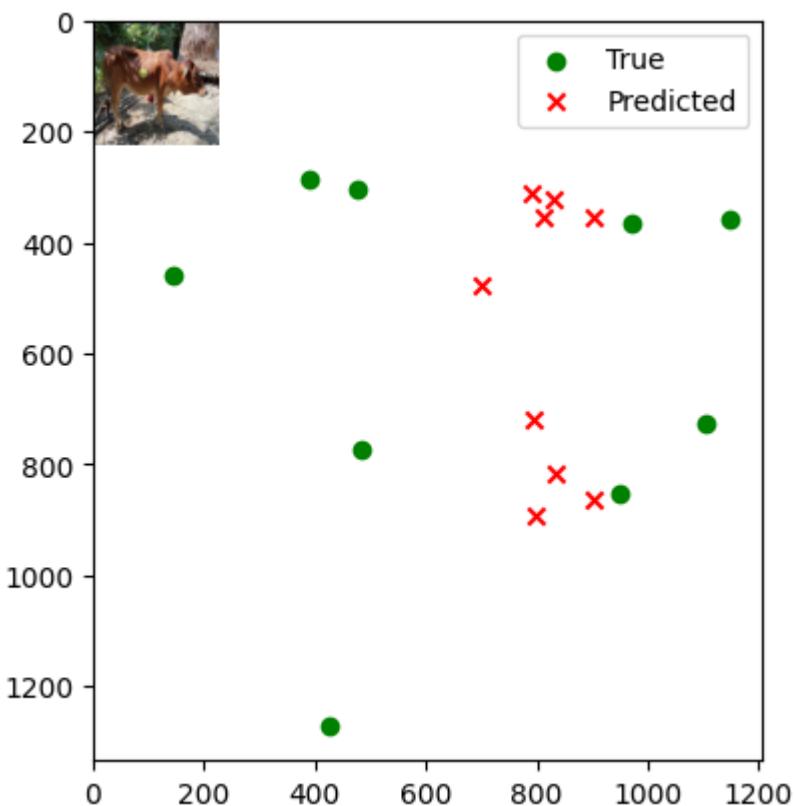


Image number: 141

True keypoints: [648. 236. 1609. 399. 625. 575. 829. 257. 841. 732. 127. 2. 238.

1282. 662. 1385. 226. 1396. 1126.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[758.01337 327.32166]

[653.1931 444.33307]

[740.58624 669.8496]

[839.59814 329.64508]

[840.79205 805.24274]

[773.36017 296.34265]

[776.5297 759.70905]

[736.8591 284.10358]

[741.34845 830.78]]

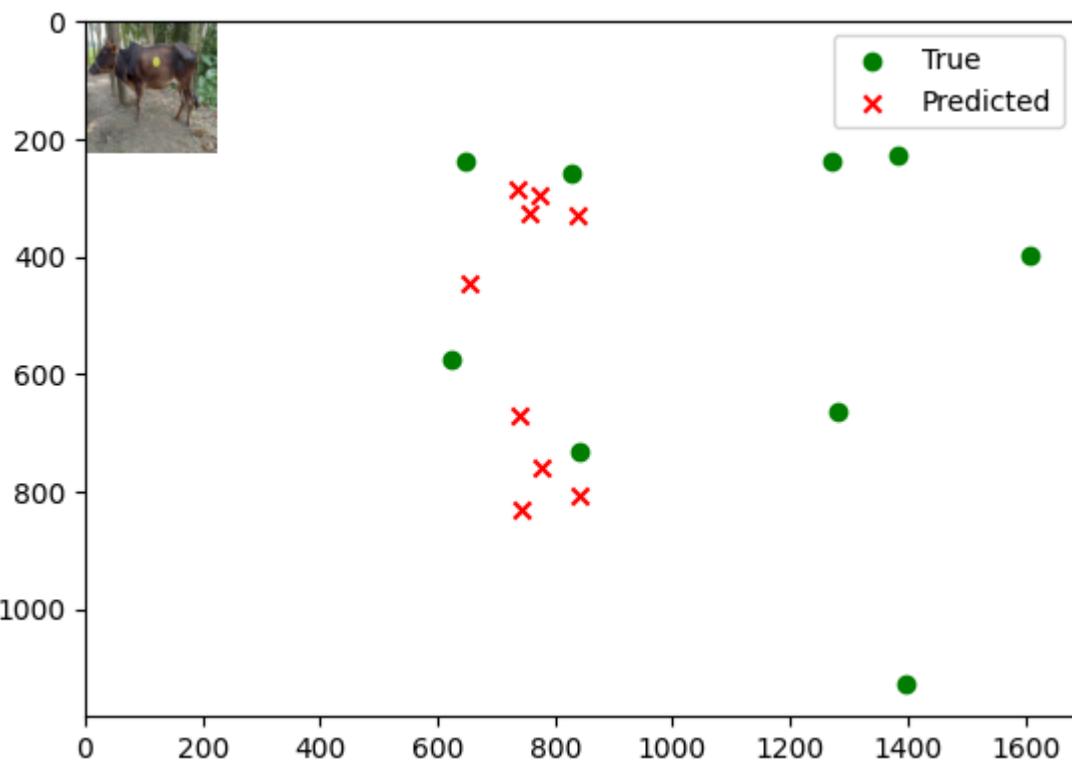


Image number: 142

True keypoints: [740. 404. 1581. 551. 718. 697. 877. 418. 899. 849. 132
1. 435.
1332. 797. 1395. 424. 1418. 1233.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[835.54944 364.36508]
[723.91315 491.3974]
[815.89154 738.69324]
[928.20593 366.89673]
[929.2382 889.16425]
[855.93066 332.1136]
[859.38055 838.7865]
[816.18207 319.31268]
[820.87256 918.4714]]

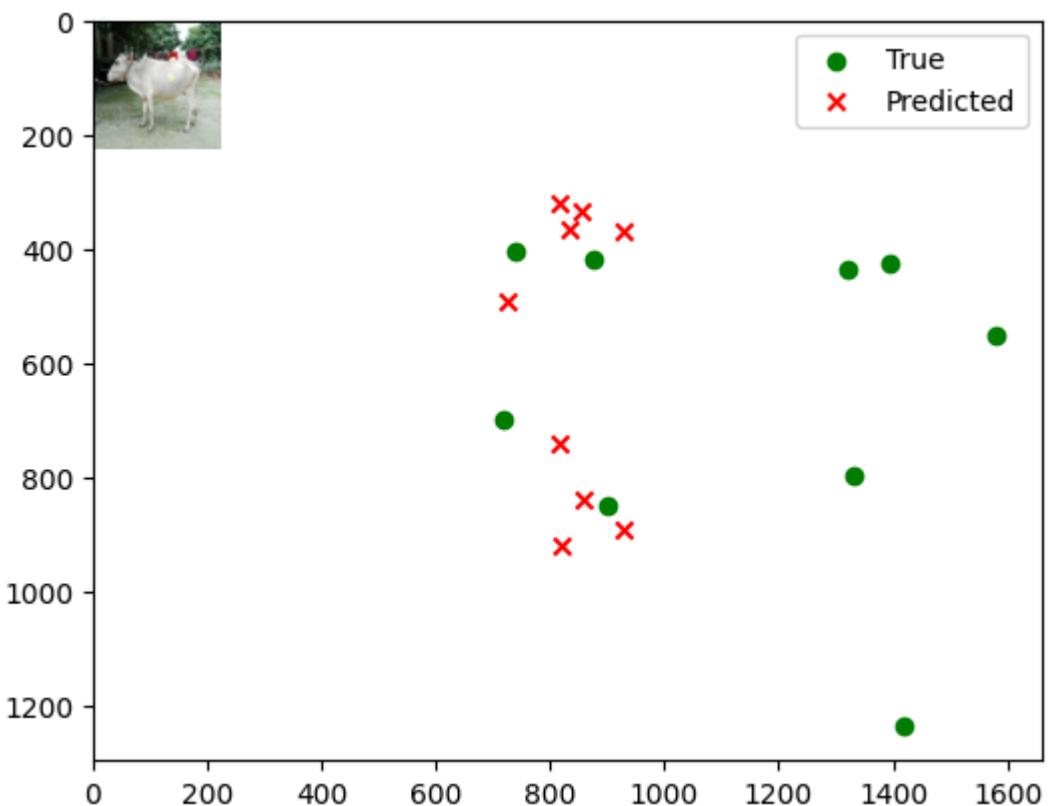


Image number: 143

True keypoints: [1243. 352. 146. 426. 1236. 683. 1001. 331. 989. 838. 50
7. 310.

507. 790. 359. 292. 364. 1302.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[774.39075 336.0764]

[661.21704 454.90662]

[757.2248 686.0415]

[855.9077 337.50266]

[856.86664 821.4505]

[786.19025 302.434]

[789.55475 776.4728]

[747.8802 289.74625]

[752.6149 846.60657]]

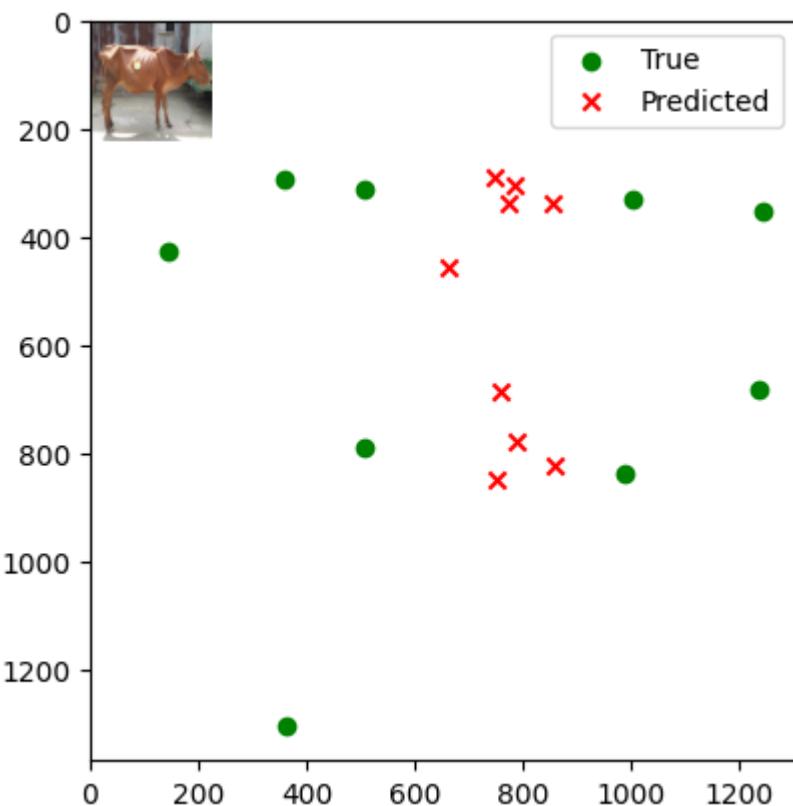


Image number: 144

True keypoints: [741. 449. 1466. 449. 712. 652. 892. 423. 901. 785. 124
7. 384.

1242. 742. 1313. 379. 1301. 1163.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[810.9656 353.3228]

[701.88074 476.82364]

[791.95386 716.96454]

[900.49756 355.7236]

[901.65845 862.81506]

[830.2385 321.76813]

[833.61414 813.90704]

[791.5691 309.22055]

[796.09875 891.0303]]

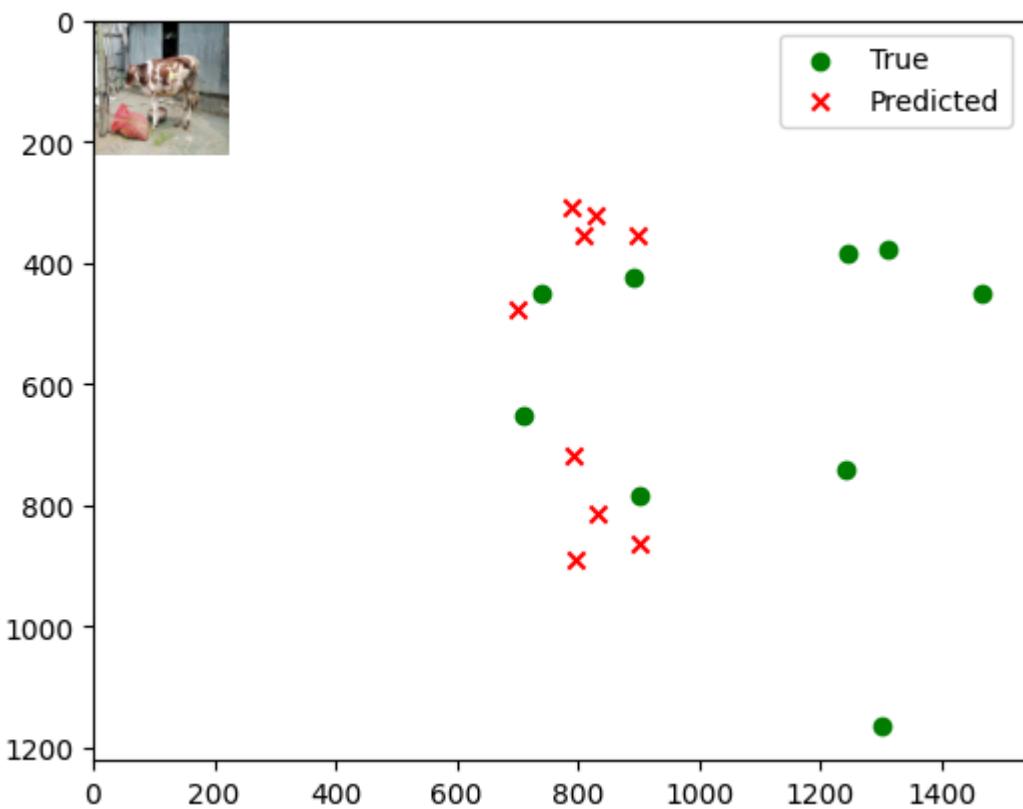


Image number: 145

True keypoints: [698. 349. 1732. 392. 683. 606. 911. 339. 929. 797. 1404. 295.

1412. 787. 1546. 279. 1548. 1179.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[827.91187 361.2744]

[717.19037 487.03494]

[808.45123 732.01166]

[919.744 363.7072]

[920.86127 881.0697]

[848.1116 329.336]

[851.5684 831.1498]

[808.7213 316.6515]

[813.30835 910.05444]]

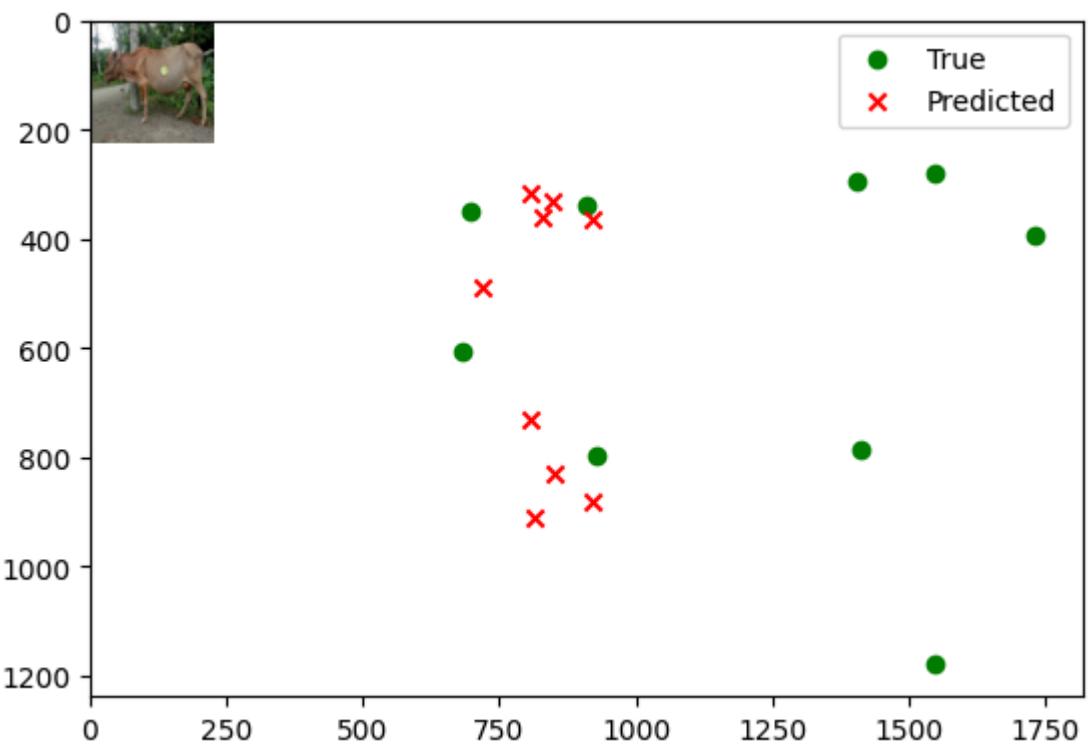


Image number: 146

True keypoints: [643. 399. 1404. 511. 632. 660. 786. 412. 807. 809. 116
5. 412. 1171. 796. 1242. 399. 1246. 1090.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[824.64343 360.1528]
[714.72375 485.29706]
[805.219 729.1487]
[916.3864 362.5804]
[917.5223 877.7881]
[845.12036 328.56427]
[848.58936 827.9702]
[805.9501 315.9641]
[810.44965 906.74286]]

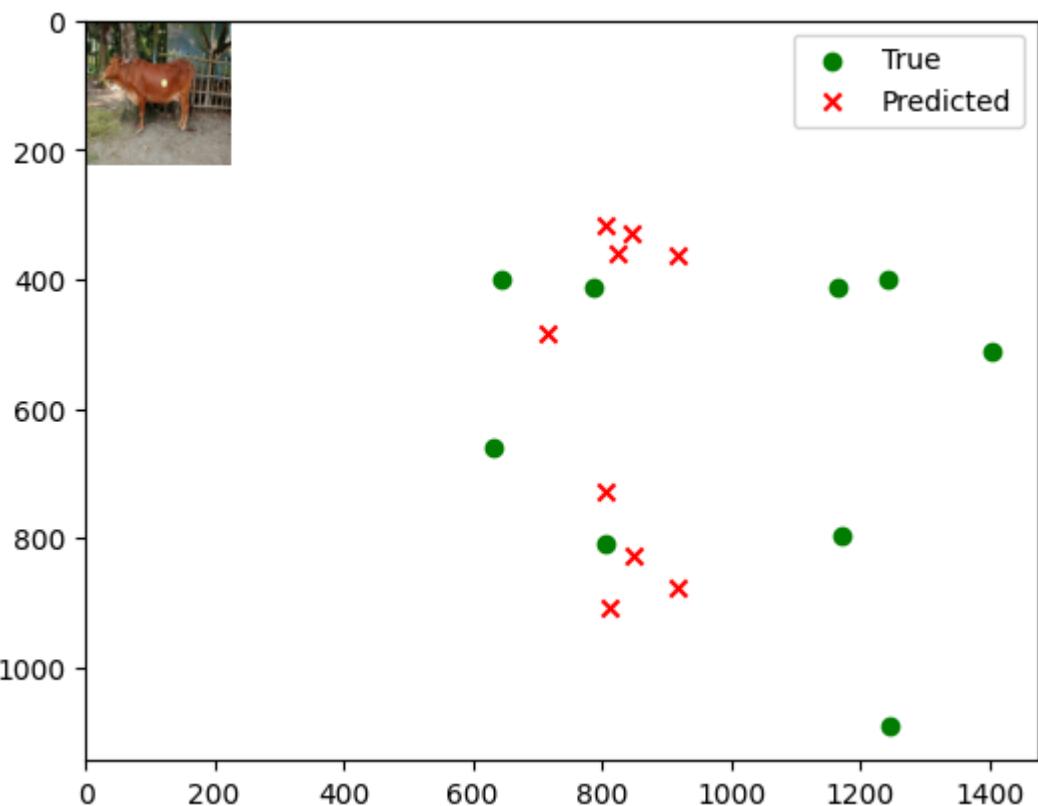


Image number: 147

True keypoints: [726. 306. 1615. 447. 716. 593. 927. 311. 949. 755. 132
4. 320.

1341. 704. 1415. 309. 1435. 1182.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[807.3276 351.8512]

[698.54913 474.7347]

[788.38025 713.7759]

[896.4431 354.21103]

[897.67896 858.9492]

[826.4936 320.44553]

[829.8904 810.2661]

[787.9513 307.9823]

[792.4239 887.00354]]

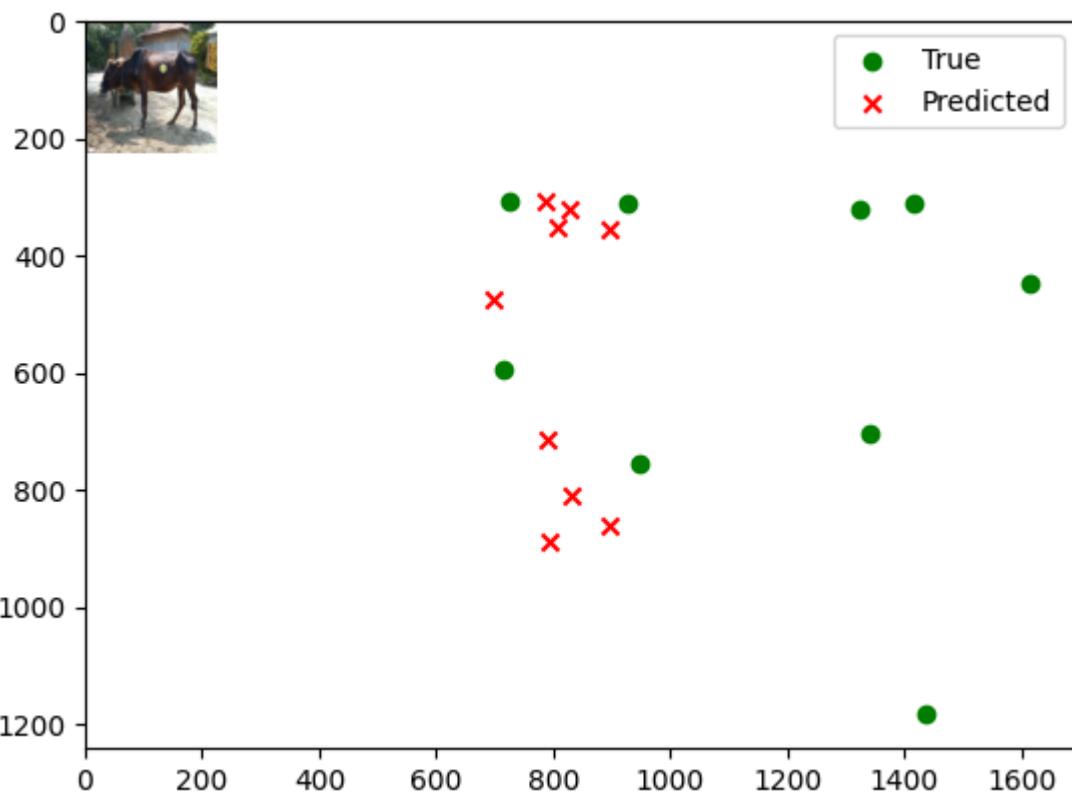


Image number: 148

True keypoints: [678. 344. 1618. 457. 620. 681. 881. 352. 900. 818. 134
1. 312.

1340. 740. 1421. 311. 1429. 1252.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[822.5469 359.00018]

[712.37036 483.9331]

[803.2031 727.2897]

[913.78503 361.4033]

[914.98804 875.3884]

[842.6262 327.2945]

[846.0839 825.75916]

[803.46045 314.69]

[807.9546 904.1601]]

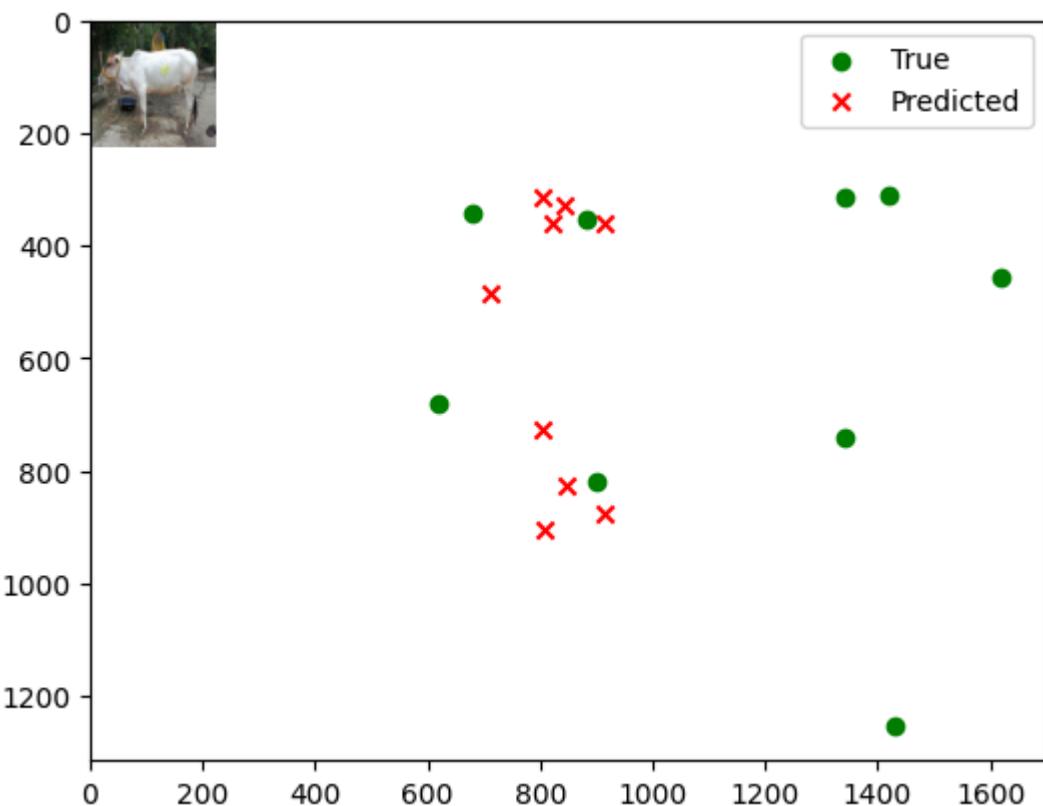


Image number: 149

True keypoints: [736. 386. 1773. 460. 746. 718. 940. 395. 964. 850. 139
3. 324.

1407. 773. 1496. 304. 1526. 1272.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[841.7616 368.90744]

[730.6602 495.98883]

[821.8122 744.4429]

[936.3259 371.34988]

[937.5029 896.5309]

[863.7964 337.32294]

[867.4099 845.6161]

[823.9786 324.6921]

[828.3866 926.41486]]

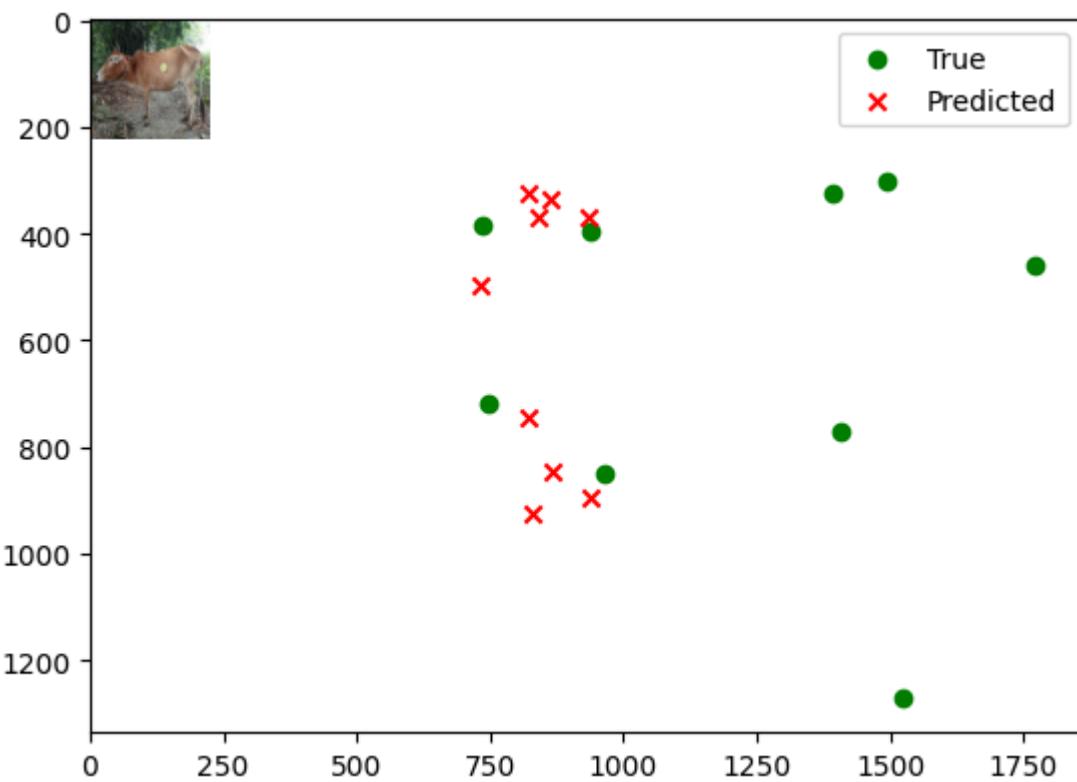


Image number: 150

True keypoints: [716. 255. 1649. 342. 701. 545. 926. 269. 939. 697. 134
3. 232.

1352. 669. 1441. 218. 1468. 1093.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[768.5432 332.80014]

[663.10754 450.95065]

[750.7781 679.27344]

[851.91187 335.1336]

[853.1082 816.824]

[784.92316 301.86133]

[788.146 770.60913]

[748.02985 289.61087]

[752.46747 842.9491]]

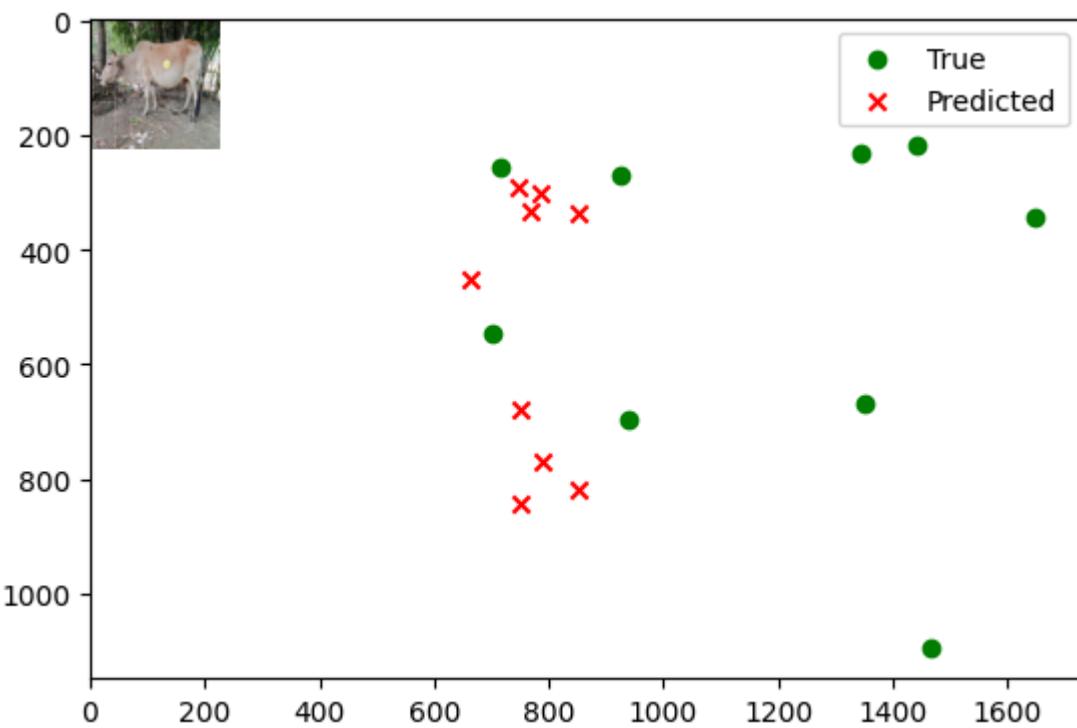


Image number: 151

True keypoints: [707. 232. 1814. 379. 674. 621. 904. 227. 930. 820. 144
6. 200.
1460. 768. 1557. 187. 1600. 1338.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[727.8329 312.19183]

[625.0381 425.63876]

[711.3863 643.02374]

[804.5944 314.47083]

[805.60803 772.1692]

[740.422 281.20358]

[743.43915 728.7658]

[705.09106 269.05075]

[709.6891 796.1511]]

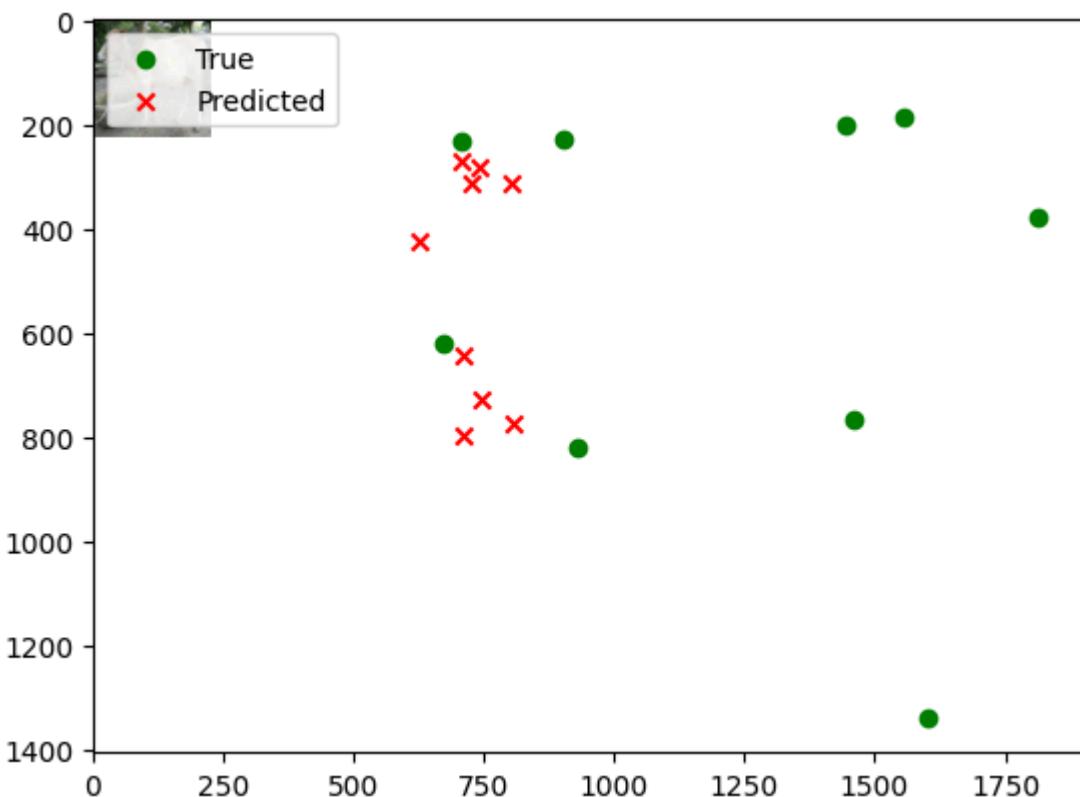


Image number: 152

True keypoints: [1204. 233. 337. 397. 1210. 556. 1031. 243. 1010. 701. 59. 5. 244.]

611. 655. 538. 240. 557. 1099.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[754.0476 325.17548]

[648.65936 441.77686]

[736.8607 666.4824]

[834.58453 327.39883]

[835.5878 800.58496]

[768.2954 293.74603]

[771.4323 755.59235]

[731.809 281.45612]

[736.4348 825.7921]]

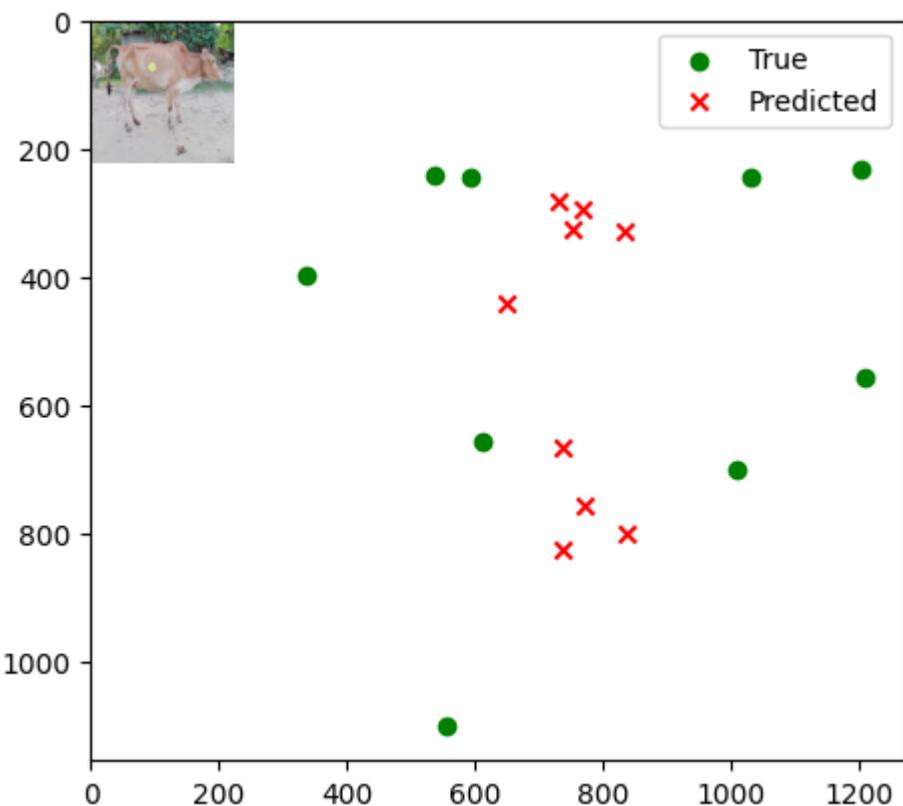


Image number: 153

True keypoints: [683. 312. 1631. 463. 617. 647. 833. 331. 843. 809. 134
2. 286.

1348. 755. 1405. 287. 1432. 1270.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[793.52765 344.14923]

[685.37994 465.79428]

[775.08325 701.3461]

[880.01996 346.54254]

[881.1741 843.6156]

[811.0287 312.49075]

[814.27026 795.8415]

[772.9676 299.9567]

[777.588 870.7839]]

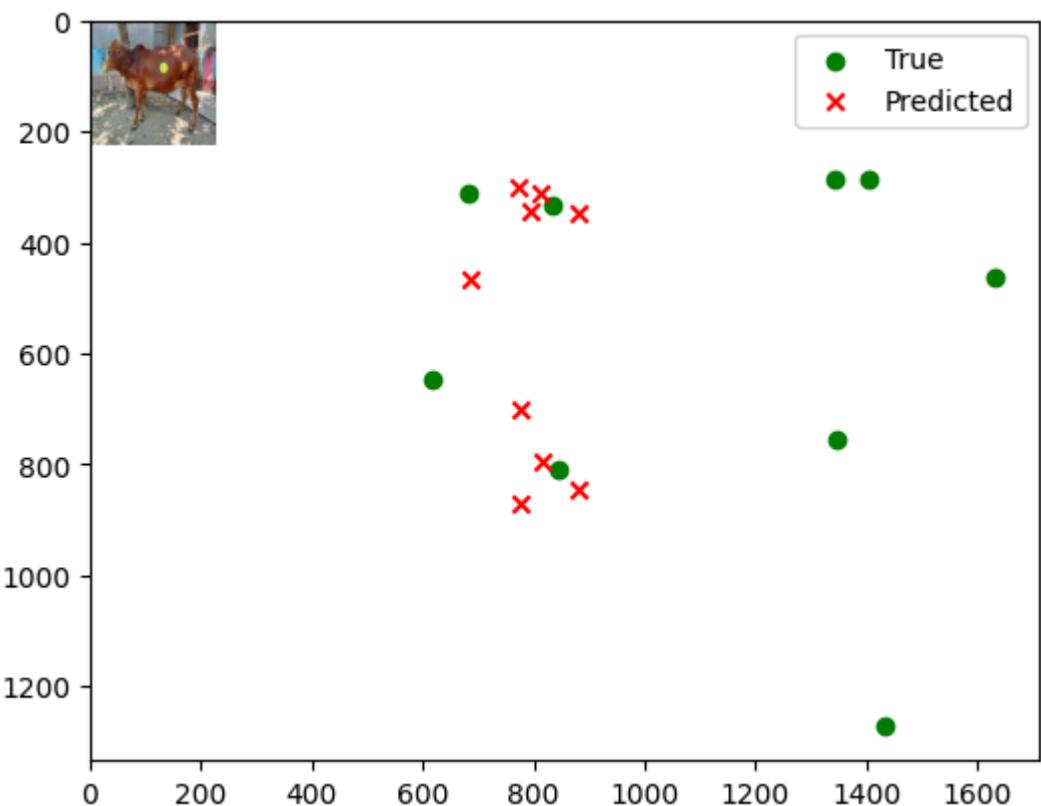


Image number: 154

True keypoints: [761. 334. 1696. 362. 730. 657. 936. 313. 971. 788. 136
6. 279.

1390. 704. 1482. 264. 1516. 1333.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[799.53094 346.5572]

[690.75977 469.21072]

[780.94543 706.5937]

[886.70337 349.04797]

[887.7705 849.941]

[817.1926 314.6551]

[820.4458 801.8506]

[778.8881 302.04065]

[783.5874 877.38416]]

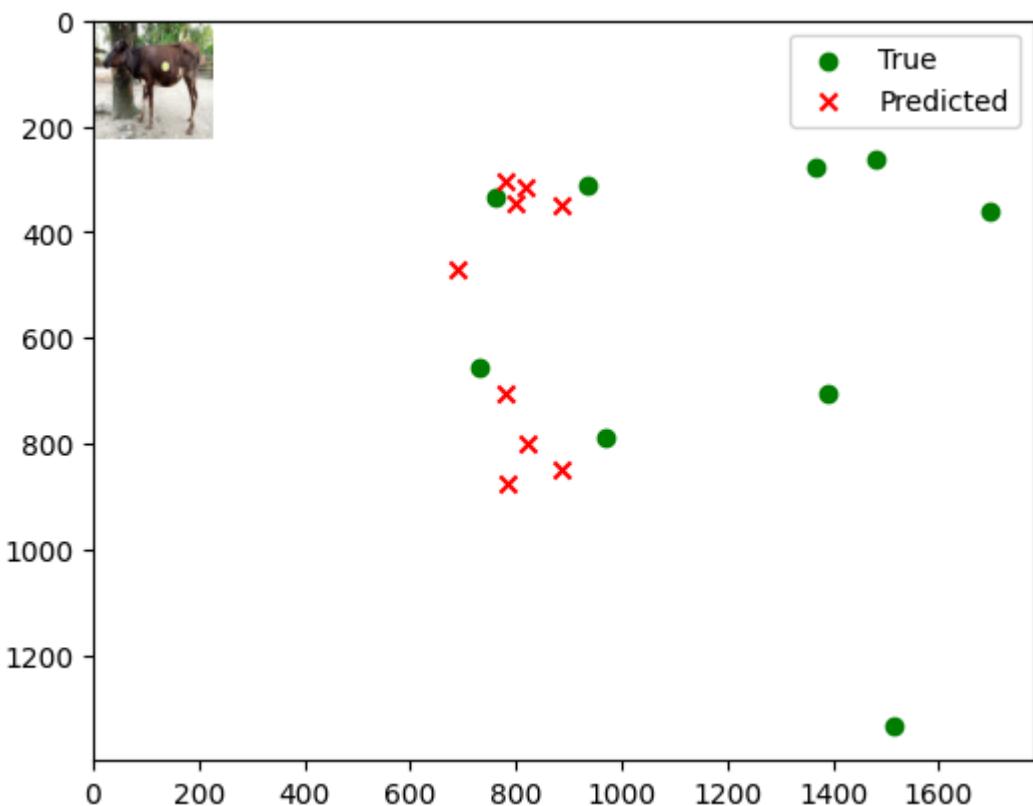


Image number: 155

True keypoints: [801. 324. 1763. 341. 777. 612. 1004. 322. 1008. 769. 143. 4. 245.

1437. 710. 1563. 221. 1558. 1270.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[771.18854 332.34418]

[664.51666 451.6987]

[753.48267 681.3553]

[853.924 334.79315]

[854.923 819.0177]

[786.5 300.5578]

[789.60114 772.7638]

[749.292 288.0521]

[754.05664 844.97906]]

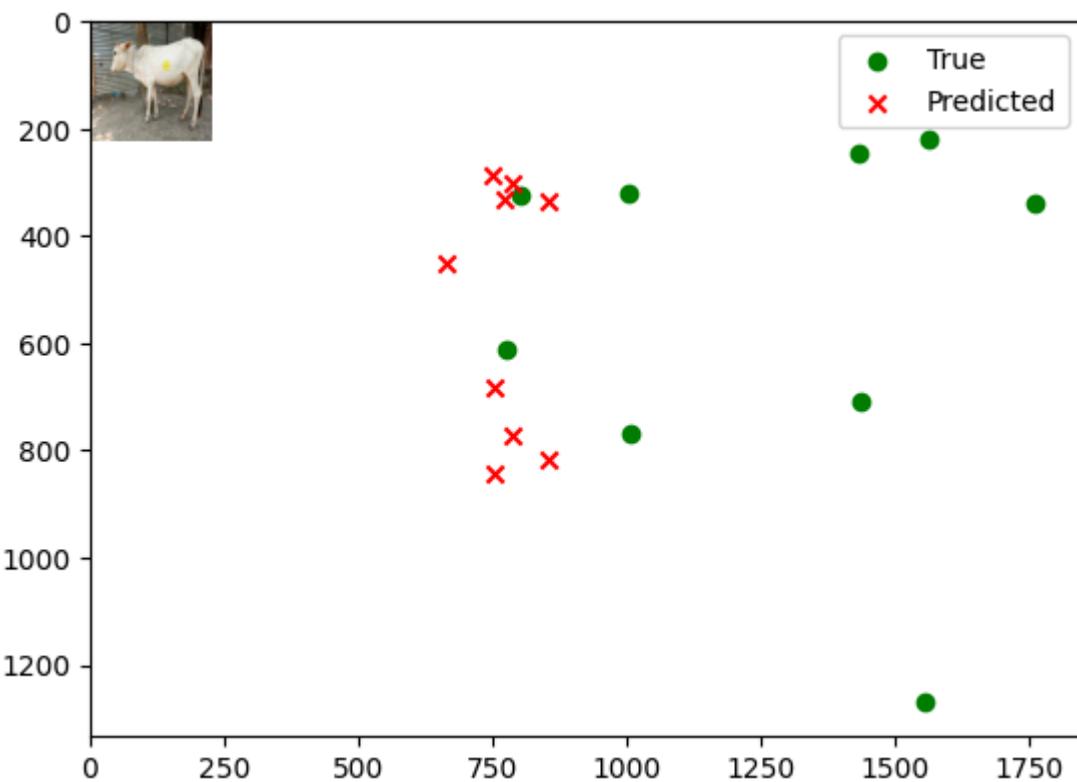


Image number: 156

True keypoints: [688. 261. 1655. 424. 691. 631. 904. 266. 930. 766. 135
6. 263.

1365. 706. 1445. 257. 1458. 1207.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[774.0862 334.96774]

[667.8635 454.06912]

[756.20636 684.1218]

[857.9767 337.345]

[859.1 822.63086]

[790.4821 303.69937]

[793.69867 776.117]

[753.28705 291.34924]

[757.8291 848.9613]]

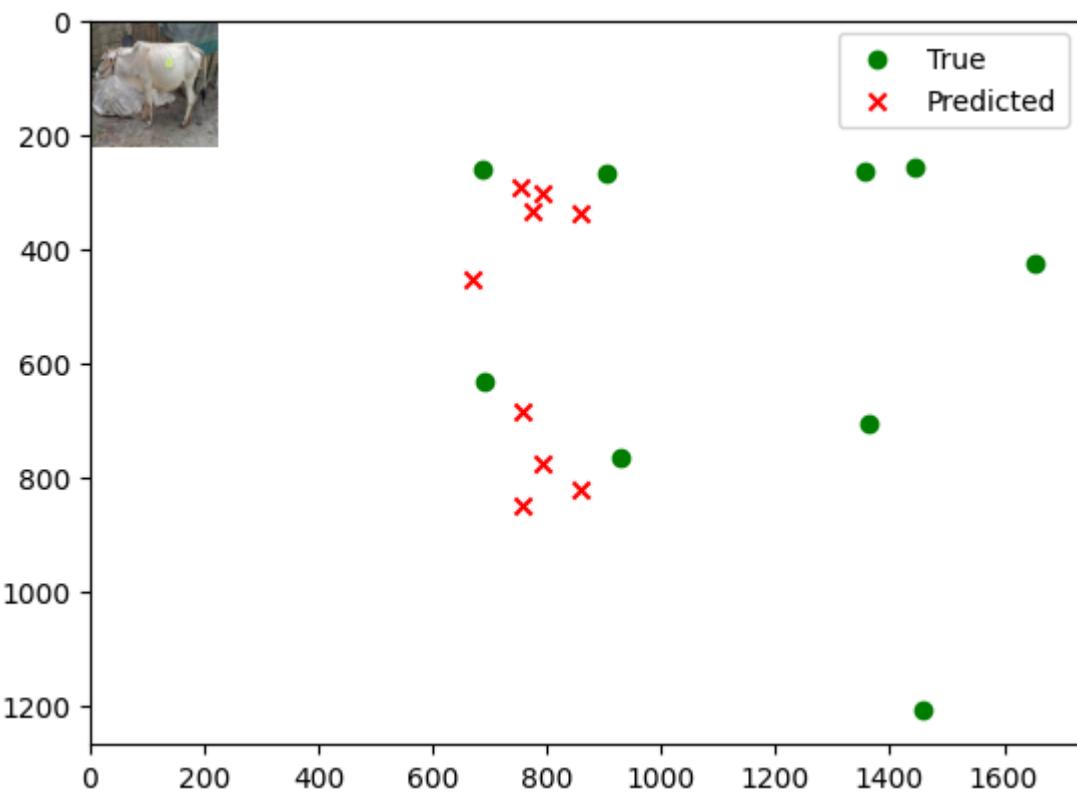


Image number: 157

True keypoints: [716. 311. 1758. 396. 734. 604. 926. 310. 945. 790. 1404. 266.

1417. 737. 1476. 253. 1501. 1176.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[784.1501 339.6604]

[676.97235 460.11115]

[765.9918 693.0353]

[869.38635 342.05295]

[870.49506 833.4728]

[801.09314 308.17163]

[804.3425 786.3119]

[763.4704 295.73196]

[768.061 860.23755]]

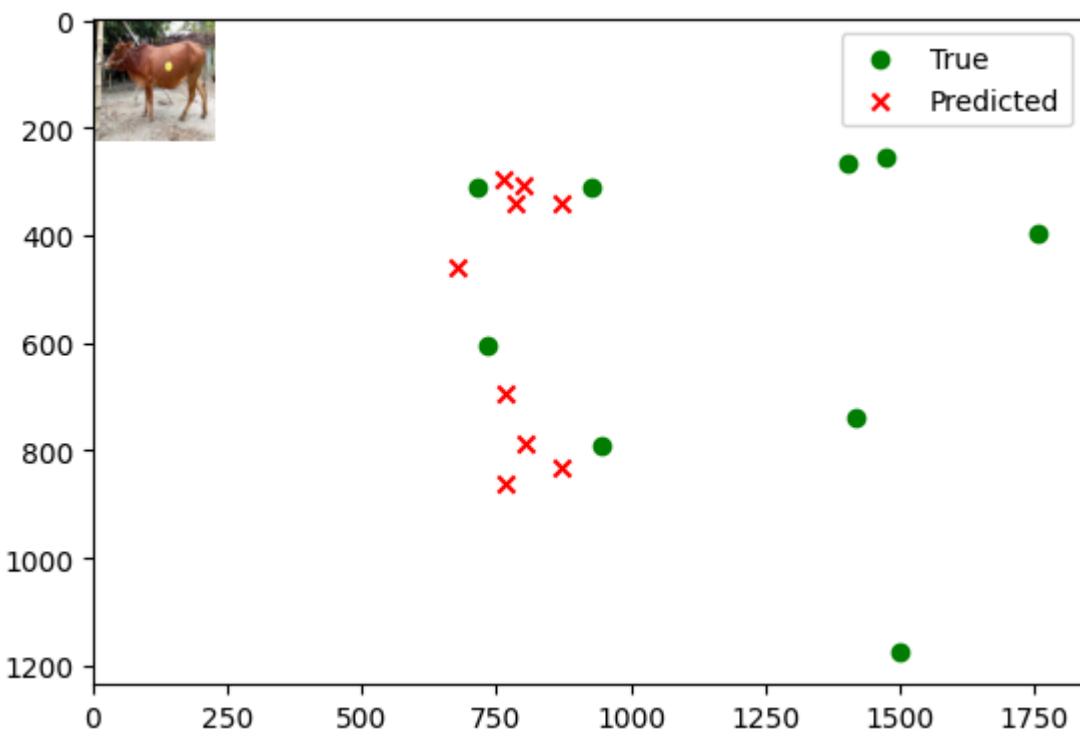


Image number: 158

True keypoints: [622. 298. 1599. 450. 569. 661. 794. 327. 793. 826. 1279. 323. 1291. 732. 1393. 306. 1409. 1238.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[814.76514 354.48624]

[705.0501 478.8188]

[795.7189 720.24365]

[904.5163 356.9442]

[905.6107 866.7018]

[833.8771 322.61014]

[837.25446 817.6043]

[794.9929 309.9579]

[799.6091 894.9817]]

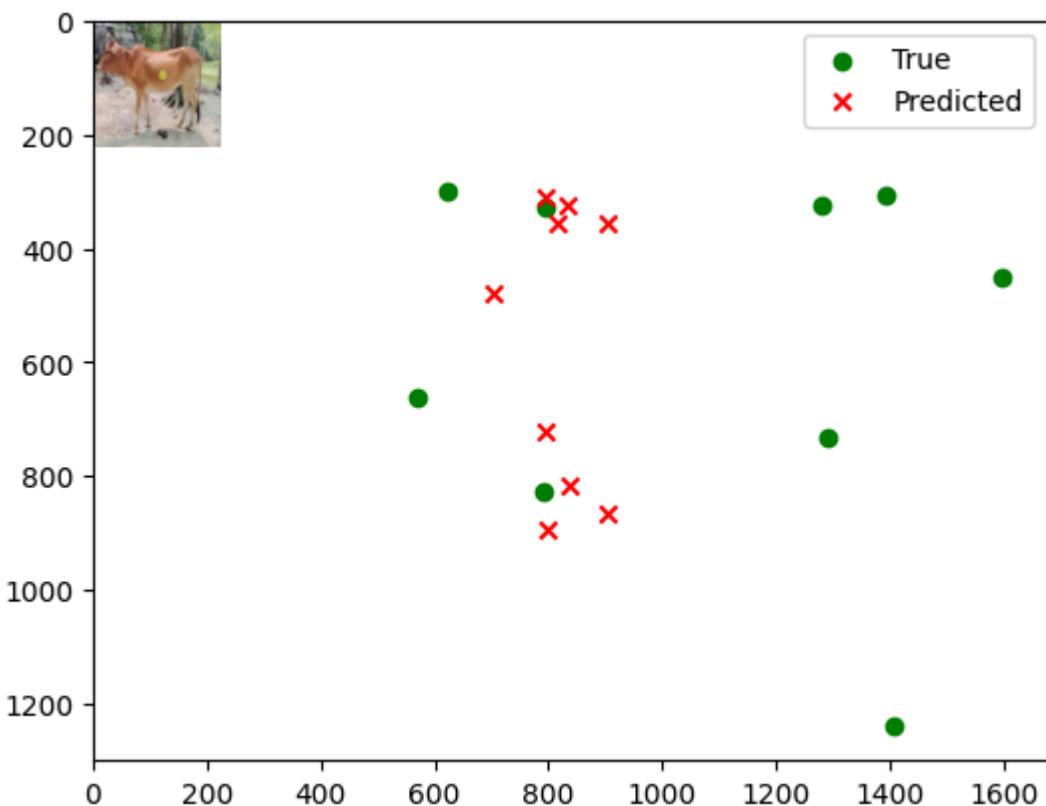


Image number: 159

True keypoints: [1191. 275. 264. 323. 1220. 576. 1012. 268. 988. 728. 59
1. 208.

582. 653. 482. 182. 503. 1139.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[737.27344 318.2157]

[634.17773 432.10754]

[720.45105 651.6773]

[816.12256 320.3549]

[817.3213 782.91473]

[751.36426 287.63412]

[754.5088 738.82056]

[715.74036 275.62738]

[720.1053 807.52545]]

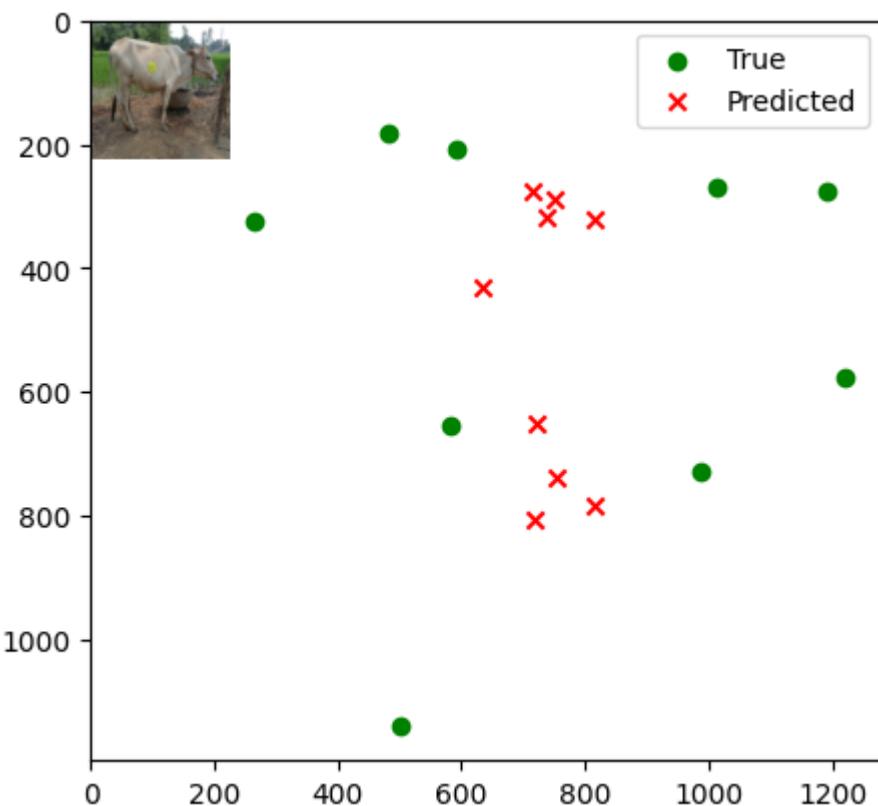


Image number: 160

True keypoints: [1180. 311. 112. 468. 1184. 633. 926. 320. 938. 811. 45
3. 298.

474. 788. 351. 287. 394. 1296.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[782.8779 339.50745]

[675.94574 459.5802]

[764.71136 691.97565]

[868.15393 341.87308]

[869.3635 832.25793]

[800.0198 308.22876]

[803.29016 785.1637]

[762.4791 295.87073]

[766.972 859.034]]

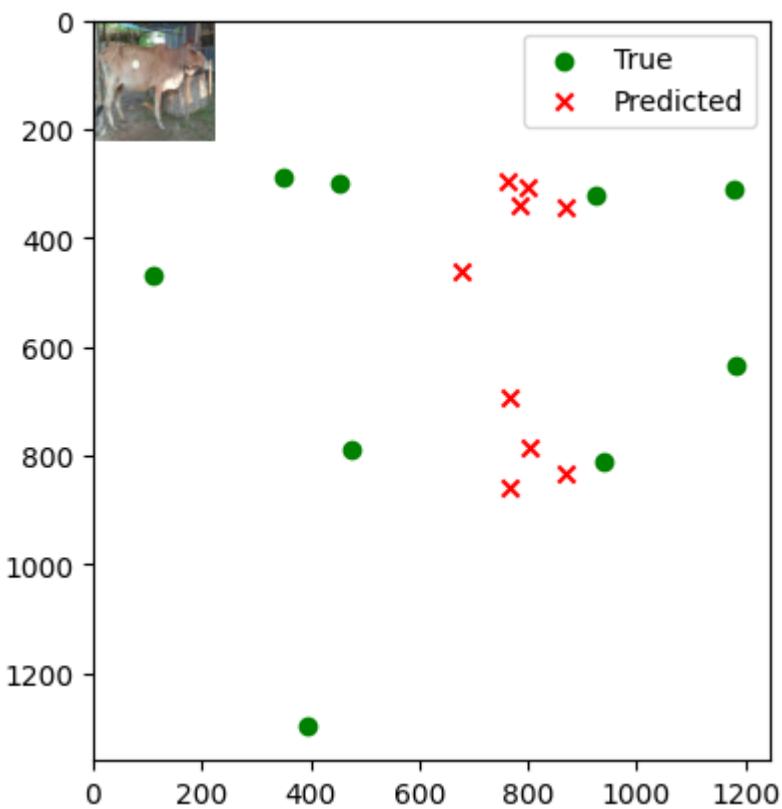


Image number: 161

True keypoints: [770. 223. 1771. 348. 702. 596. 955. 236. 975. 770. 147. 1. 208.

1476. 661. 1541. 191. 1572. 1225.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[754.84894 324.6308]

[649.6101 441.7993]

[737.6359 666.89124]

[835.27216 327.0273]

[836.25977 801.3176]

[769.0591 293.0996]

[772.11926 756.16815]

[732.56274 280.71674]

[737.28033 826.516]]

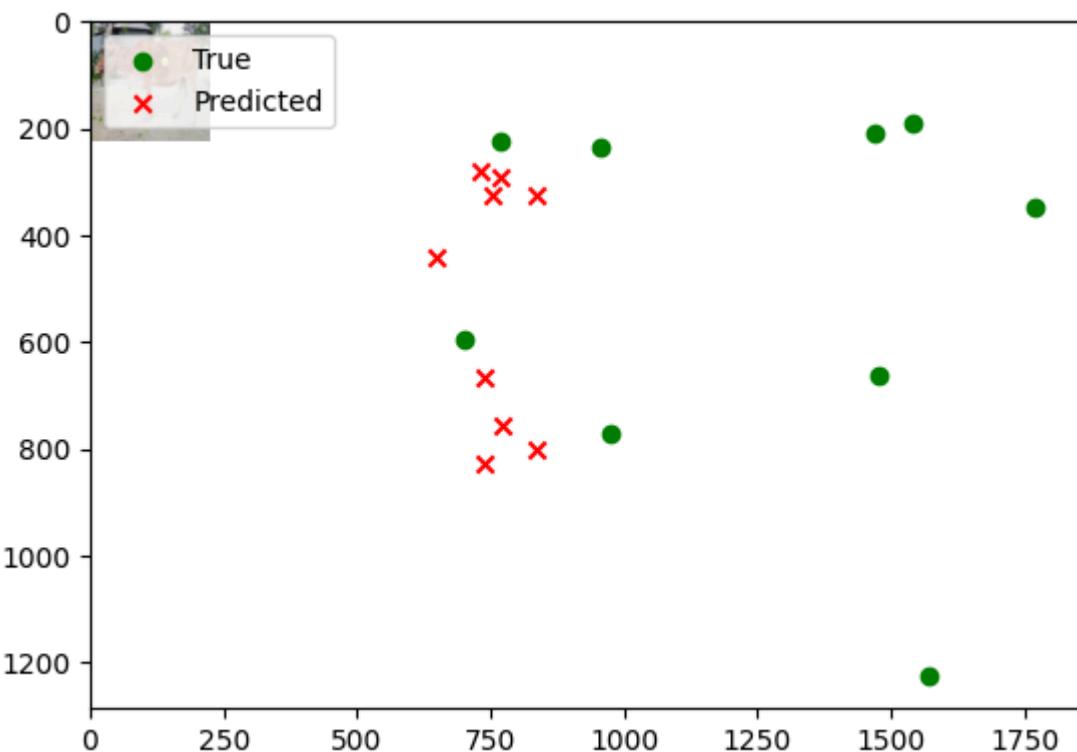


Image number: 162

True keypoints: [581. 307. 1672. 396. 568. 655. 822. 263. 842. 820. 134
6. 229.
1349. 731. 1461. 228. 1461. 1288.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[781.2455 338.90402]

```
[675.092 458.698 ]  
[763.1251 690.5274 ]  
[866.6289 341.3 ]  
[867.7687 830.6642 ]  
[798.70074 307.90192]  
[802.0062 783.59845]  
[761.3572 295.5805 ]  
[765.80664 857.47046]]
```

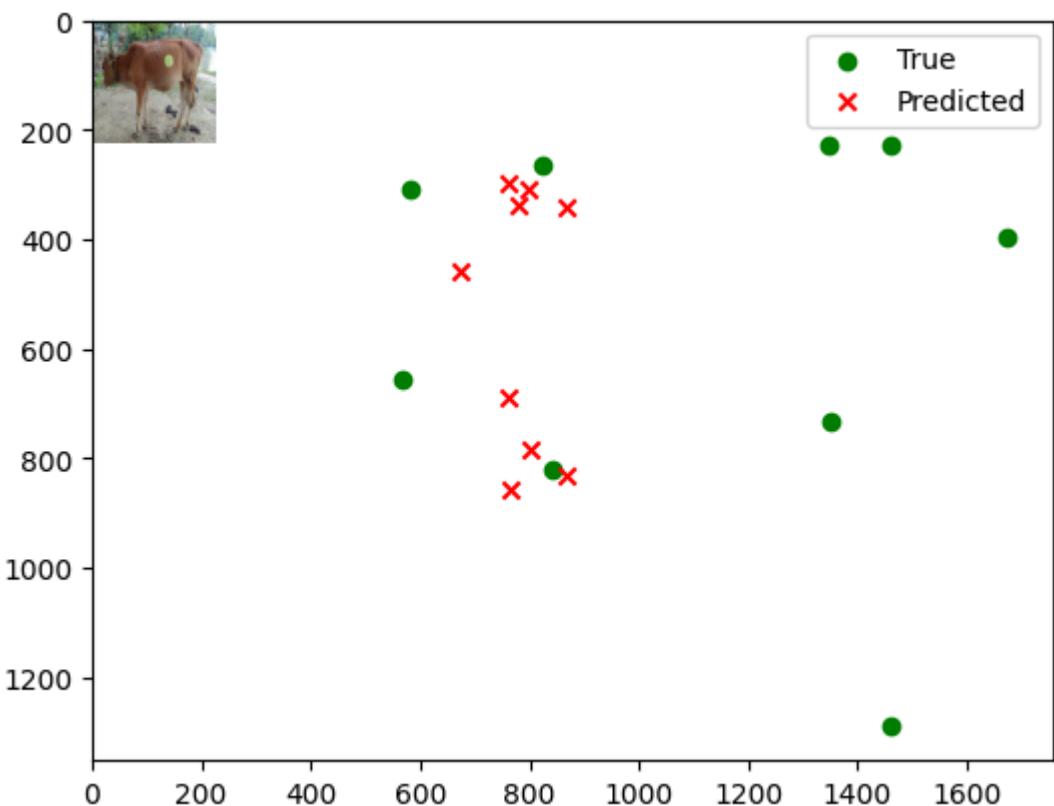


Image number: 163

True keypoints: [822. 321. 1746. 455. 768. 614. 996. 321. 1003. 787. 1415. 273.

1428. 764. 1520. 271. 1554. 1277.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[782.4413 339.53152]

[675.7928 459.41638]

[764.2719 691.6162]

[867.8353 341.8536]

[868.9983 831.88654]

[799.75995 308.35446]

[803.0333 784.77515]

[762.2526 295.99155]

[766.73456 858.6869]]

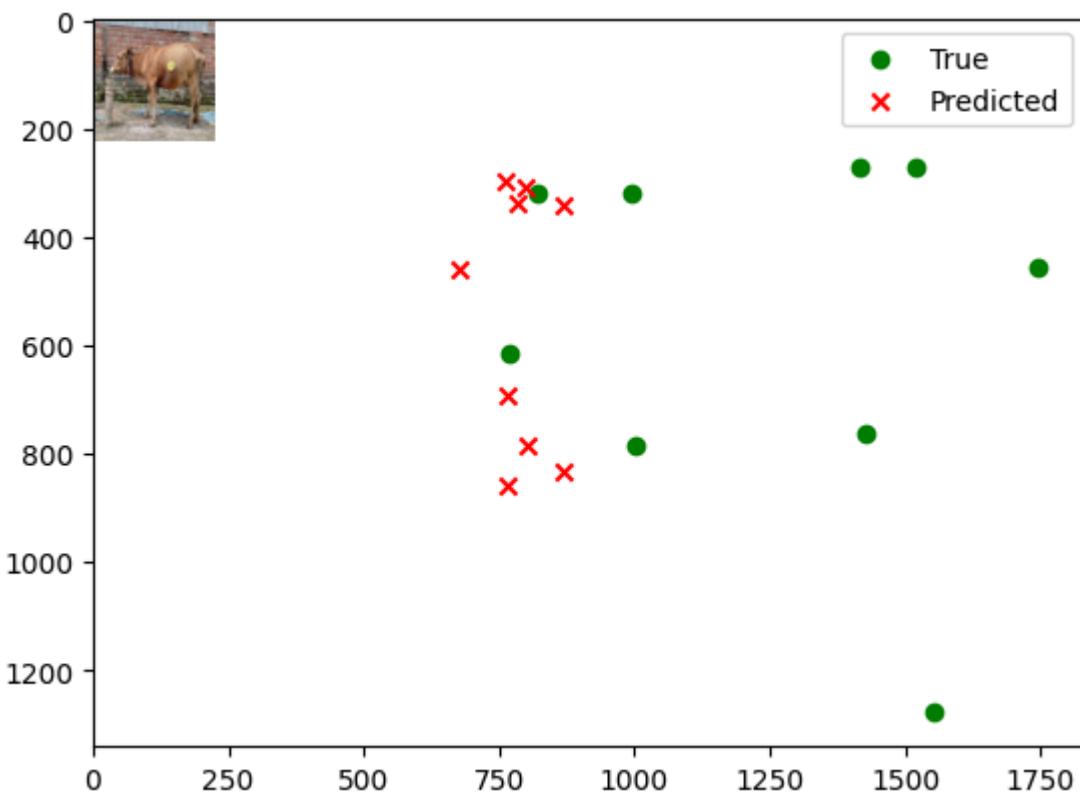


Image number: 164

True keypoints: [712. 346. 1760. 434. 750. 679. 944. 341. 990. 821. 141
0. 273.

1442. 754. 1512. 249. 1555. 1221.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[804.5882 349.82034]

[695.749 472.72058]

[785.8033 711.2371]

[892.93286 352.24515]

[894.0917 855.7405]

[823.12134 318.18103]

[826.4554 807.2656]

[784.65784 305.64462]

[789.2227 883.5381]]

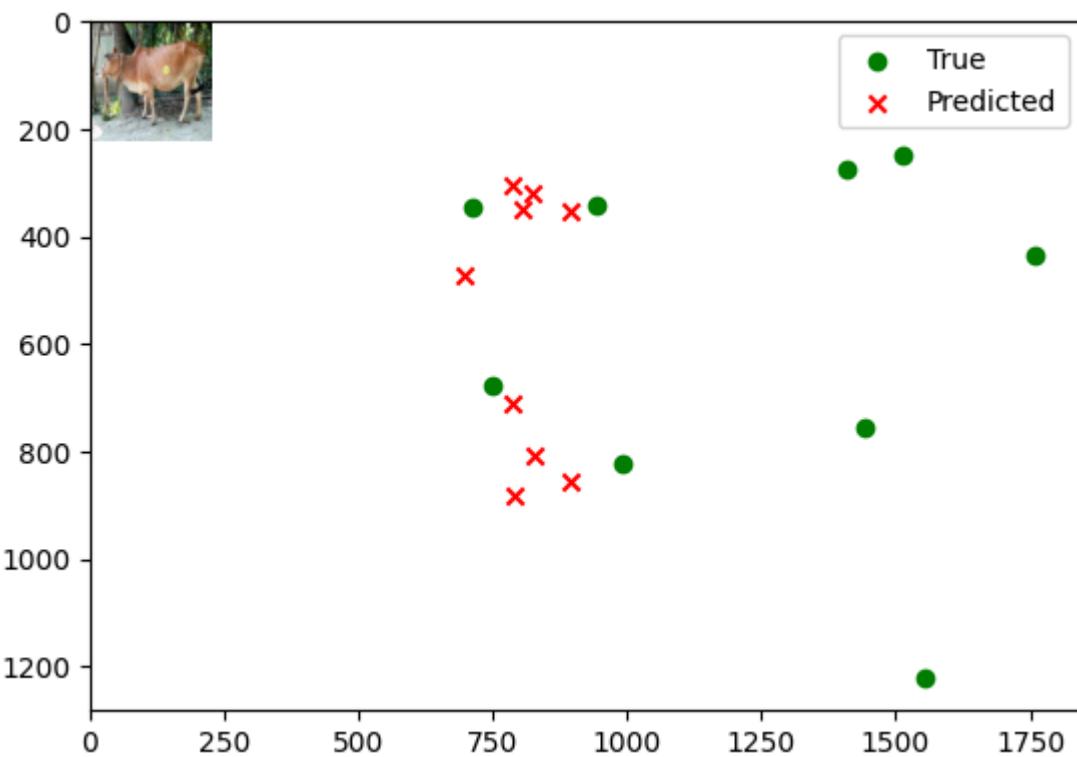


Image number: 165

True keypoints: [730. 303. 1724. 466. 753. 646. 955. 303. 974. 757. 1404. 299. 1410. 716. 1521. 276. 1540. 1231.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[803.38824 348.95425]
[694.3078 471.83127]
[784.66327 710.1405]
[891.3135 351.34818]
[892.4624 854.3]
[821.52136 317.12164]
[824.821 805.9251]
[783.04065 304.53903]
[787.6824 881.9479]]

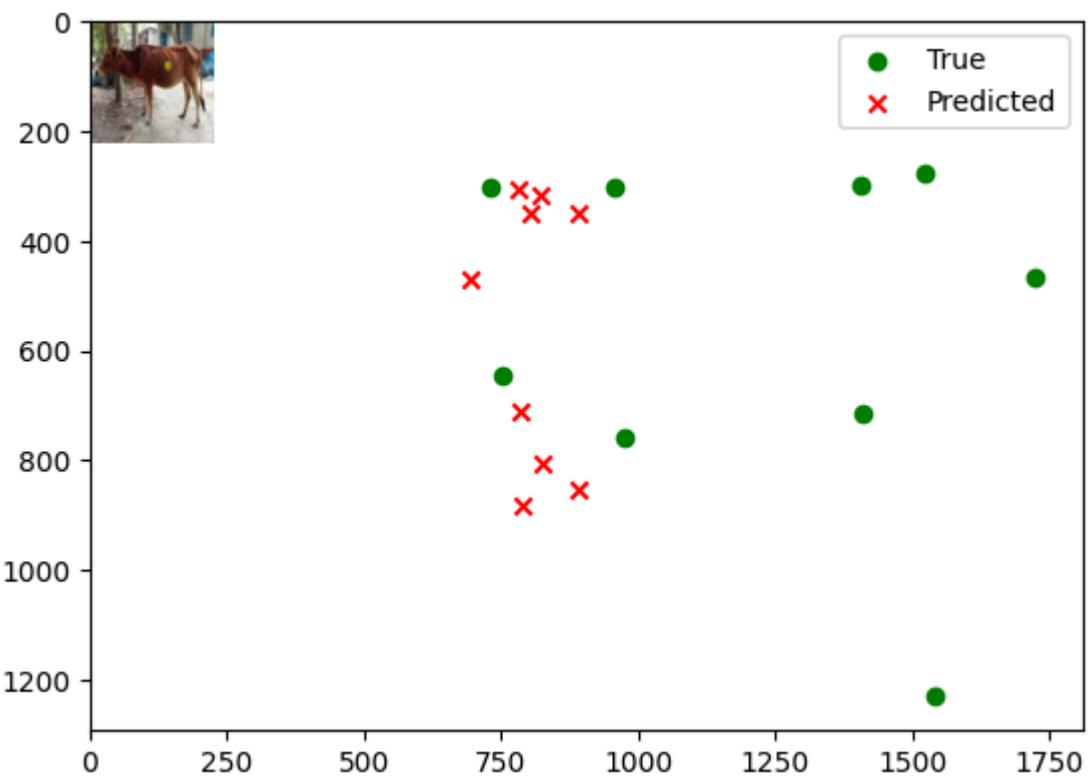


Image number: 166

True keypoints: [712. 335. 1680. 409. 744. 663. 934. 312. 962. 760. 133
6. 260.

1357. 672. 1477. 246. 1495. 1250.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[791.6603 342.91693]

[683.54333 464.5143]

[773.3076 699.65466]

[877.7311 345.3508]

[878.8558 841.47046]

[808.839 311.17184]

[812.0761 793.8549]

[770.8497 298.6191]

[775.4991 868.5289]]

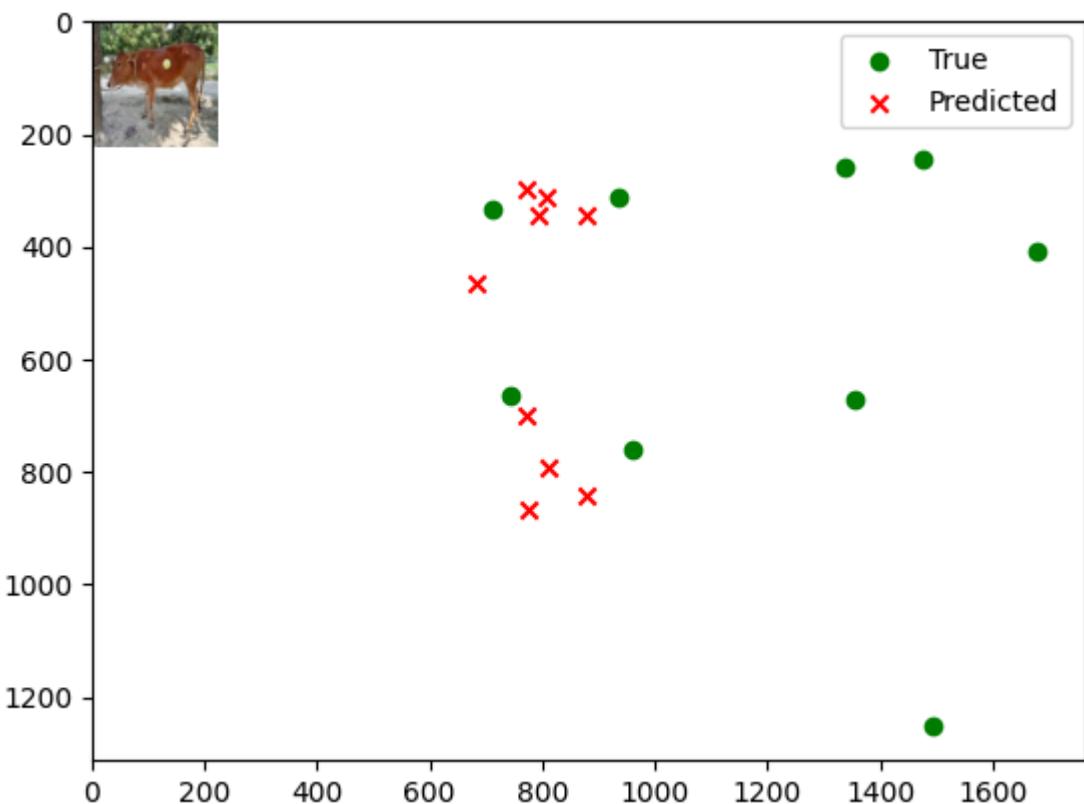


Image number: 167

True keypoints: [1228. 275. 294. 356. 1282. 595. 1043. 293. 1054. 753. 585. 236.]

600. 695. 477. 222. 503. 1209.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[752.6191 324.50784]]

[646.95184 440.9175]

[735.51215 665.2803]

[832.79083 326.6851]

[833.8189 798.9679]

[766.5095 292.95493]

[769.6341 754.1196]

[729.9976 280.649]

[734.6352 824.01953]

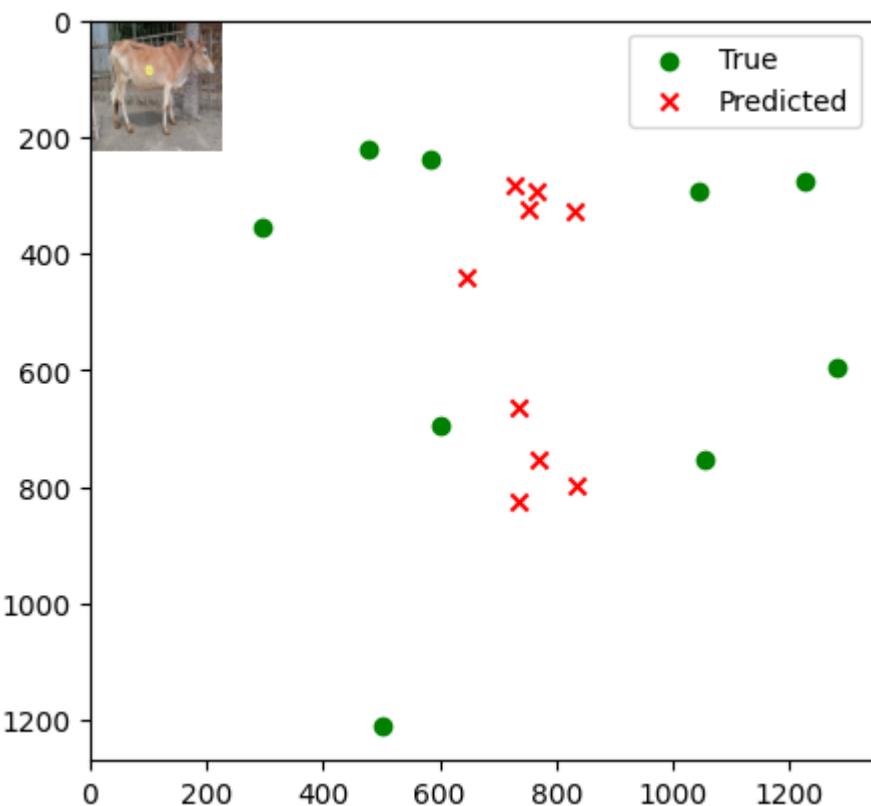


Image number: 168

True keypoints: [1261. 291. 388. 380. 1294. 614. 1066. 304. 1067. 739. 63. 7. 280.

639. 653. 570. 275. 589. 1095.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[722.57465 312.28217]

[613.71545 423.93384]

[706.87897 640.2927]

[796.9241 313.4178]

[798.11224 765.55457]

[731.14453 279.67072]

[734.3994 723.85065]

[694.9968 267.43506]

[699.46796 788.19165]]

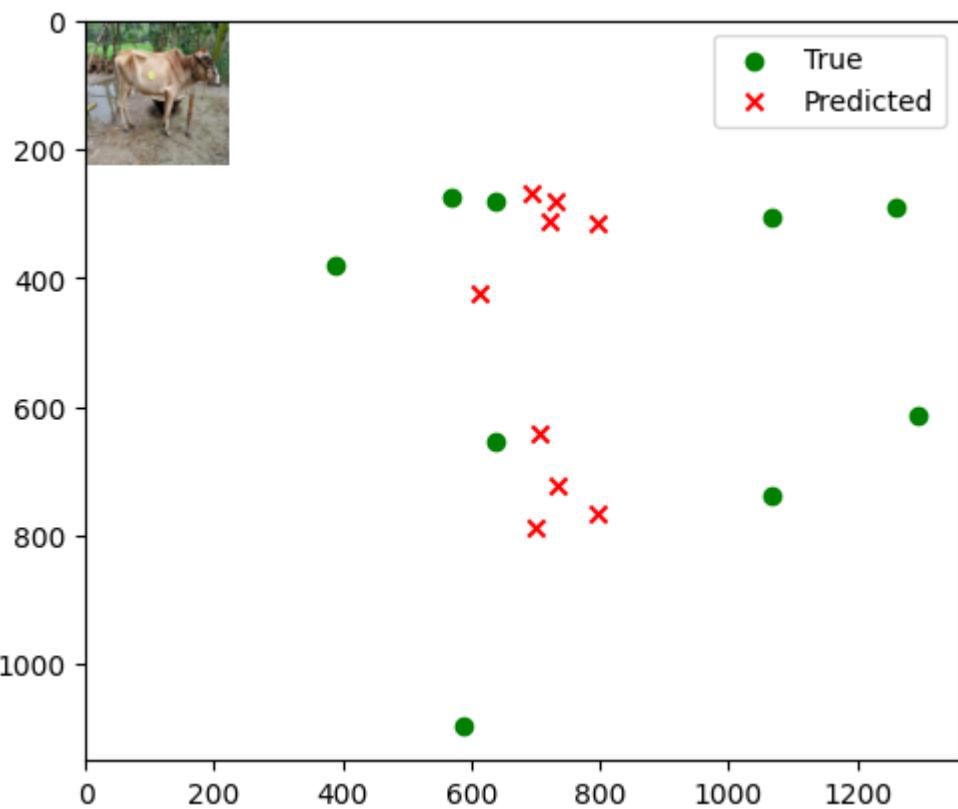


Image number: 169

True keypoints: [1274. 156. 157. 279. 1285. 463. 1047. 149. 1049. 635. 54. 2. 114.

550. 584. 426. 86. 425. 1104.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[674.6032 287.86453]

[572.5714 393.96283]

[660.06024 596.8354]

[742.5924 289.3857]

[743.6405 713.84705]

[681.3154 256.51047]

[684.25256 674.6371]

[647.6033 244.67816]

[652.1151 734.6465]]

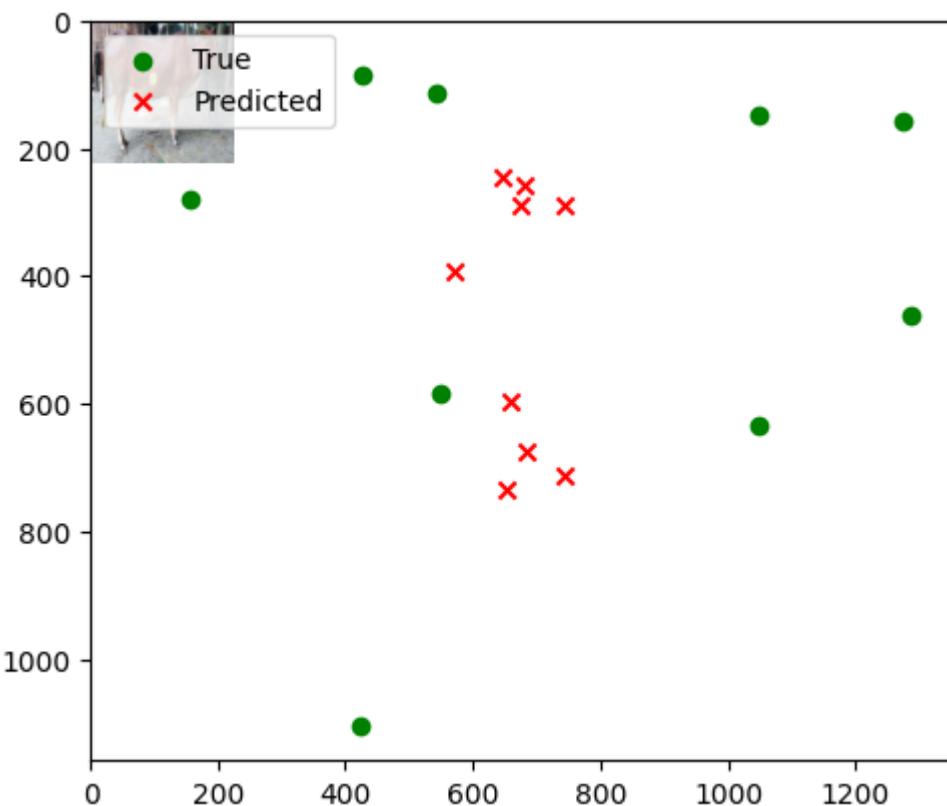


Image number: 170

True keypoints: [1166. 278. 155. 360. 1249. 576. 959. 304. 963. 766. 49. 220.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[748.60046 323.63428]

[643.8583 439.0498]

[731.52576 661.89215]

[828.8264 325.7339]

[829.99713 795.0403]

[762.9936 292.66016]

[766.1866 750.33734]

[726.7641 280.5153]

[731.1899 820.0643]]

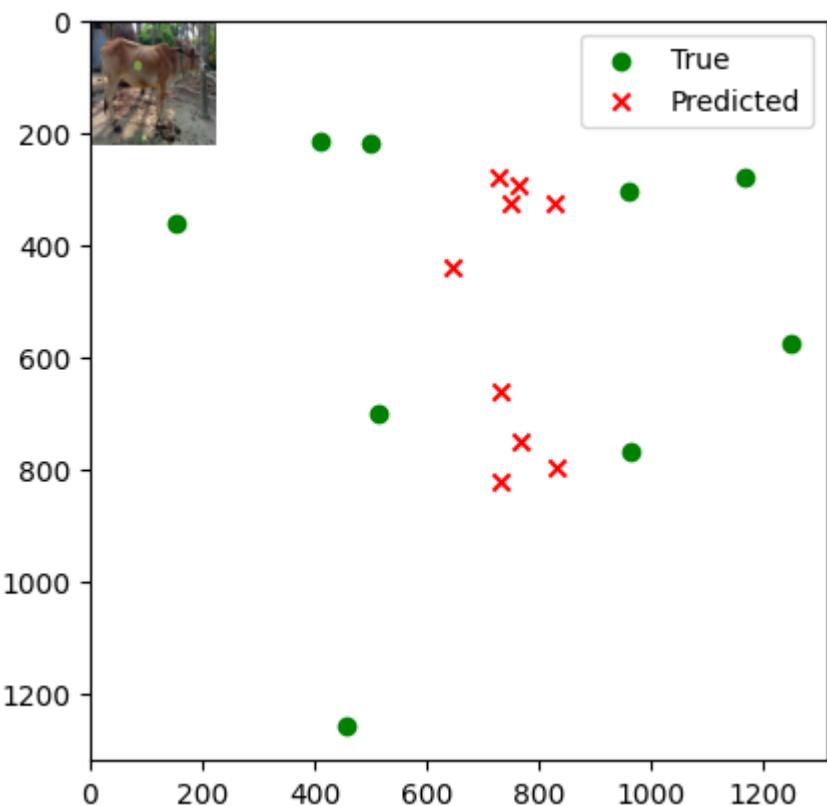


Image number: 171

True keypoints: [1286. 203. 147. 225. 1293. 548. 1033. 203. 1025. 746. 52. 6. 111.

533. 658. 374. 103. 381. 1263.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[669.4607 286.34818]

[566.7819 391.3713]

[655.21216 592.82184]

[736.61536 287.56787]

[737.5618 708.1712]

[675.2383 254.8049]

[678.2699 669.66583]

[641.621 243.02927]

[646.078 728.6085]]

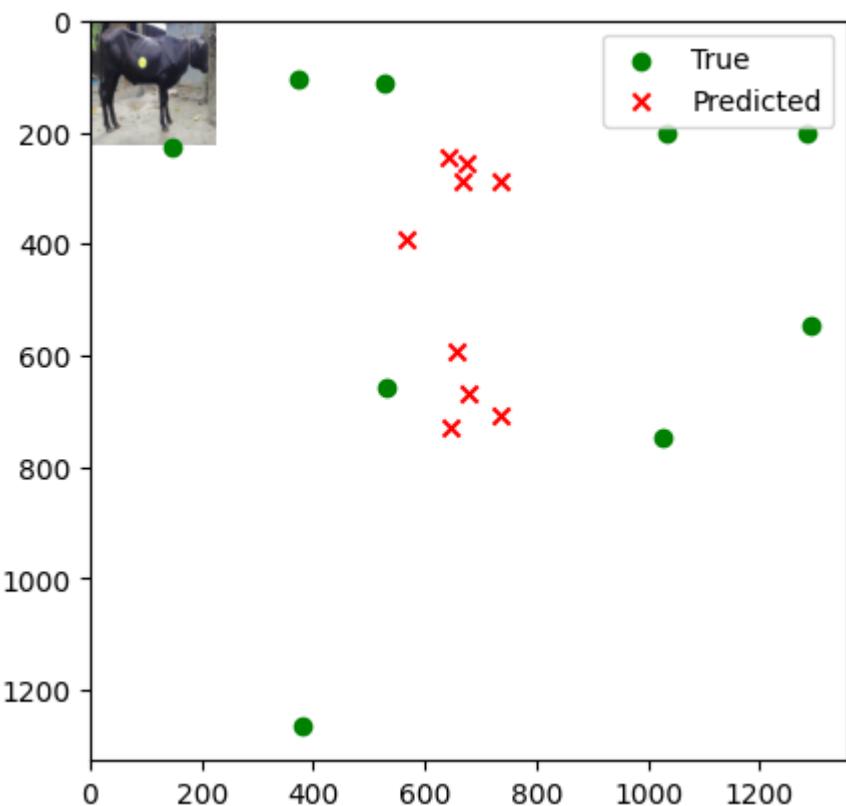


Image number: 172

True keypoints: [818. 324. 1769. 418. 819. 728. 1019. 337. 1034. 786. 143
1. 299.

1435. 729. 1485. 278. 1499. 1233.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[791.33325 342.86664]

[683.1636 464.3485]

[772.98065 699.38794]

[877.3703 345.2833]

[878.49835 841.12976]

[808.4955 311.12436]

[811.7228 793.5467]

[770.5045 298.59177]

[775.1481 868.1649]]

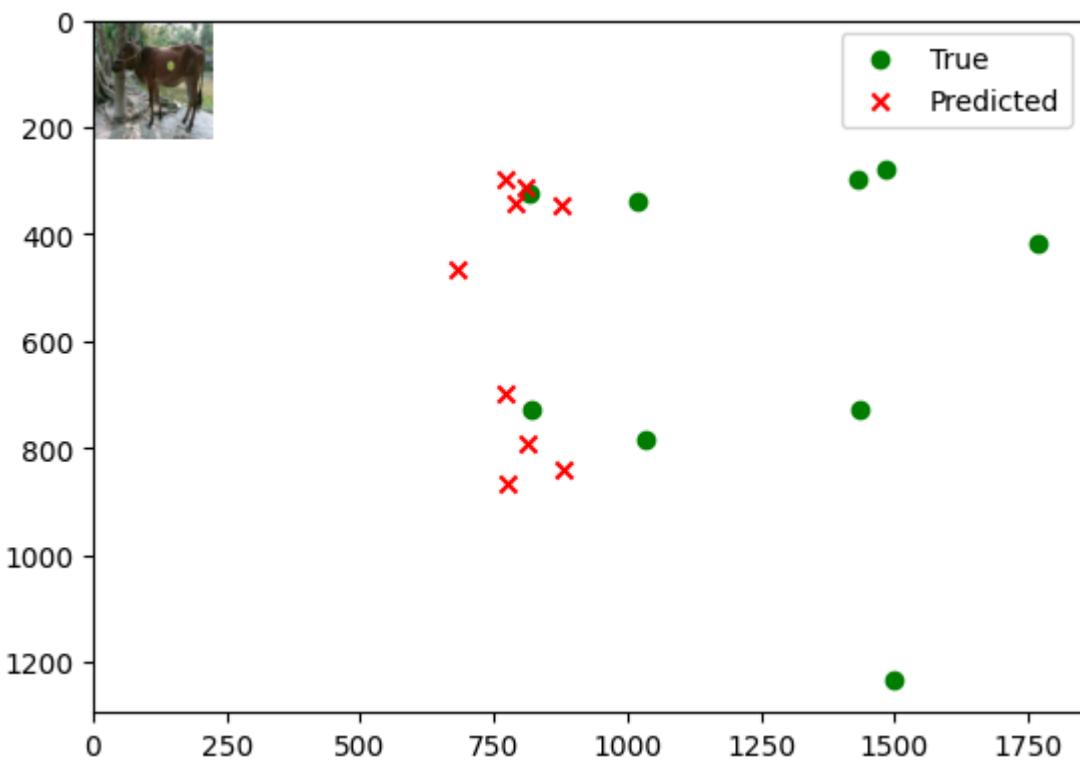


Image number: 173

True keypoints: [745. 287. 1623. 370. 738. 610. 902. 295. 930. 730. 131
3. 248.

1340. 673. 1400. 232. 1424. 1120.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[812.1052 351.97565]

[701.6548 476.55237]

[793.205 717.7033]

[900.6354 354.50552]

[901.6126 863.25964]

[830.0302 319.5003]

[833.2838 814.5234]

[791.0528 306.7306]

[795.9055 891.1924]]

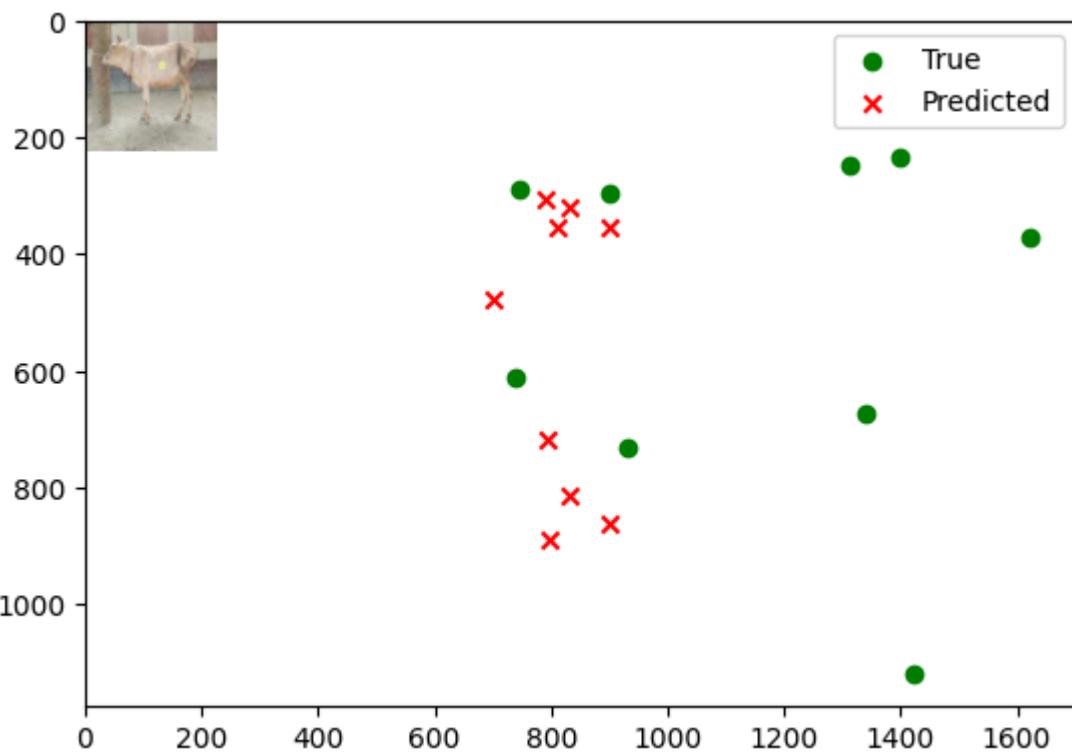


Image number: 174

True keypoints: [710. 262. 1704. 453. 669. 670. 935. 291. 942. 799. 139
0. 267.
1378. 737. 1481. 259. 1476. 1215.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[771.9065 333.8117]
[665.8624 452.6798]
[754.10315 682.1531]
[855.4221 336.18704]
[856.5538 820.2381]
[788.09564 302.54346]
[791.28625 773.8475]
[750.9995 290.18066]
[755.5571 846.4237]]

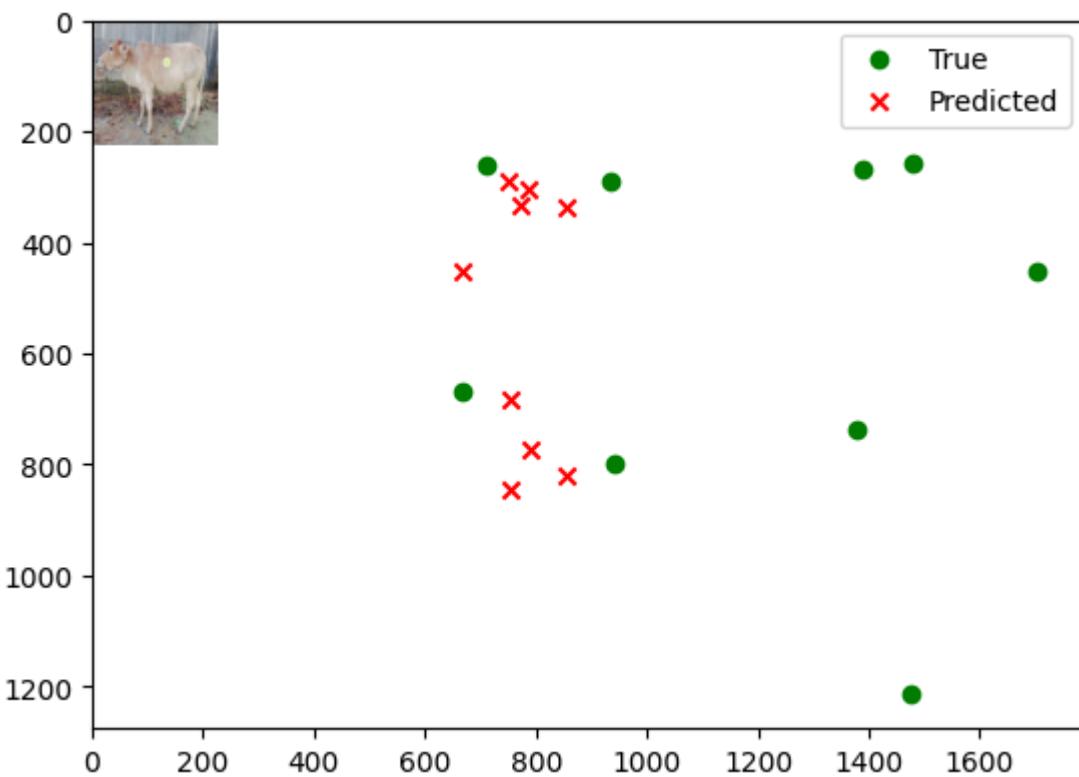


Image number: 175

True keypoints: [716. 278. 1771. 384. 732. 595. 943. 299. 956. 762. 141
3. 278.
1419. 772. 1534. 251. 1547. 1224.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[766.92773 331.4466]
[660.8723 449.65347]
[749.2723 677.771]
[849.5585 333.77975]
[850.763 814.7689]
[782.558 300.14633]
[785.723 768.7456]
[745.60736 287.83752]
[750.12976 840.6626]]

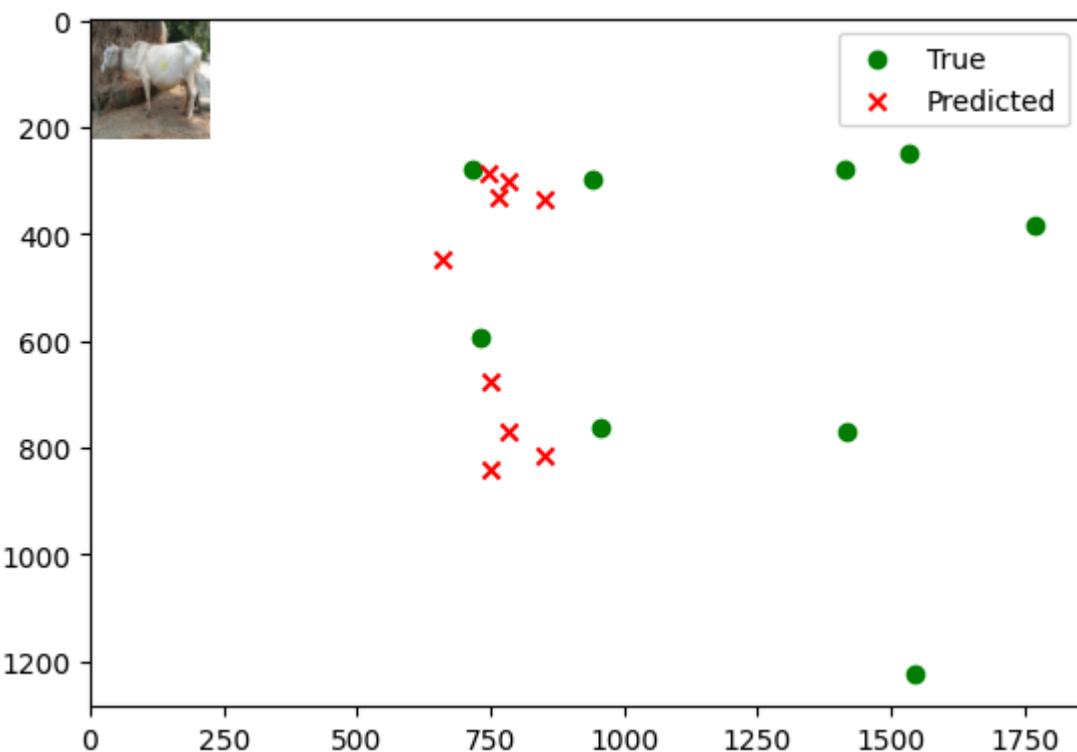


Image number: 176

True keypoints: [707. 314. 1793. 358. 644. 648. 901. 311. 920. 823. 141

4. 284.

1428. 803. 1599. 279. 1621. 1231.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[817.82495 356.37054]

[708.1176 480.8944]

[798.65375 723.02203]

[908.28455 358.8151]

[909.4177 870.1846]

[837.4602 324.64282]

[840.9002 820.8584]

[798.5122 312.04517]

[803.0566 898.69653]]

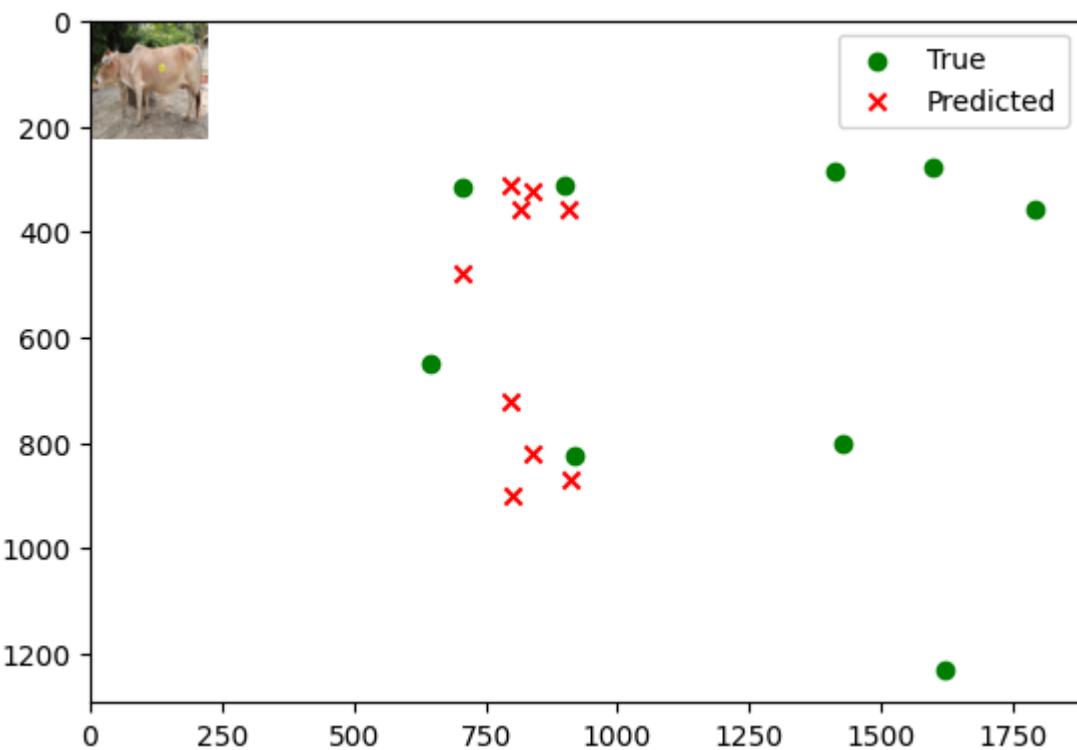


Image number: 177

True keypoints: [699. 318. 1710. 381. 627. 603. 898. 323. 909. 780. 136
4. 262.

1365. 759. 1464. 252. 1466. 1270.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[805.4539 349.94446]

[696.44836 473.1077]

[786.66437 711.9561]

[893.78546 352.3843]

[894.91504 856.57837]

[823.8672 318.17334]

[827.20056 808.0669]

[785.36487 305.5937]

[789.9738 884.3781]]

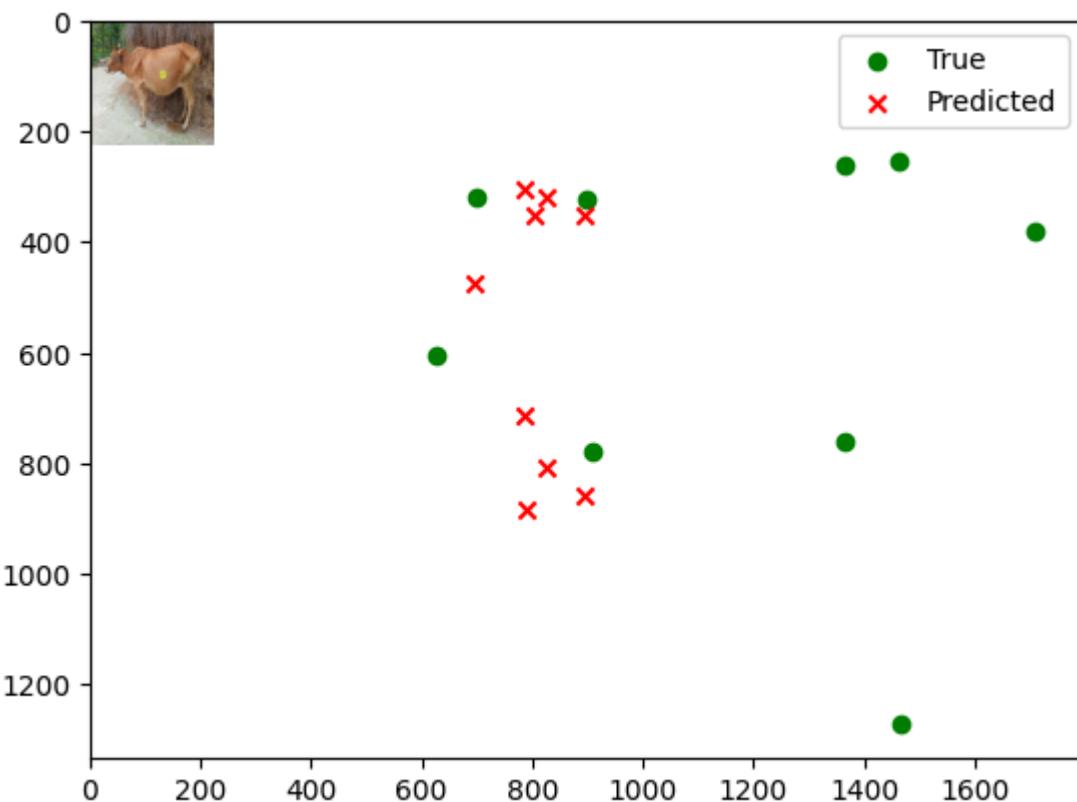


Image number: 178

True keypoints: [741. 358. 1796. 442. 706. 697. 925. 375. 947. 879. 142
3. 343.

1428. 871. 1568. 327. 1577. 1367.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[825.09534 359.90262]

[714.7854 485.30557]

[805.69904 729.47095]

[916.6016 362.34482]

[917.6804 878.06116]

[845.2226 328.06598]

[848.6542 828.27026]

[805.9725 315.39807]

[810.5533 906.92126]]

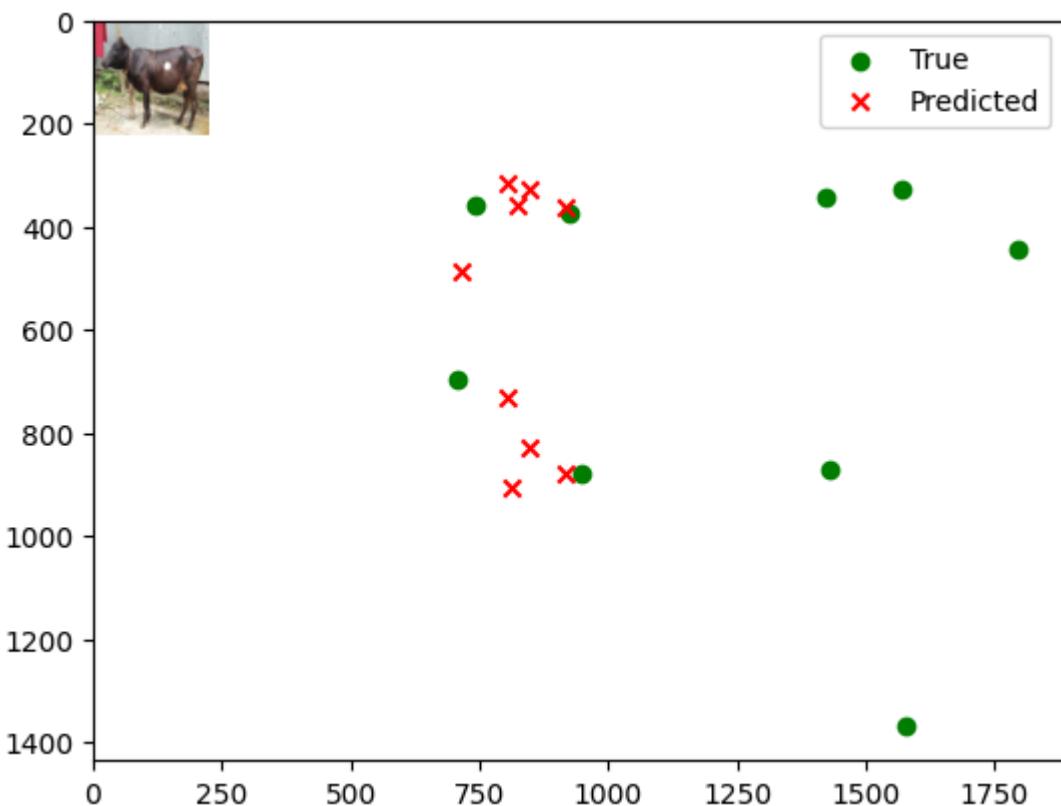


Image number: 179

True keypoints: [727. 320. 1801. 477. 696. 674. 927. 309. 937. 821. 139
5. 338.

1387. 813. 1565. 341. 1552. 1310.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[761.3474 328.4434]

[654.04266 446.08008]

[744.0481 673.079]

[842.31195 330.5368]

[843.3867 808.1954]

[775.2261 296.42596]

[778.30914 762.876]

[738.1895 284.00366]

[742.8803 833.4635]]

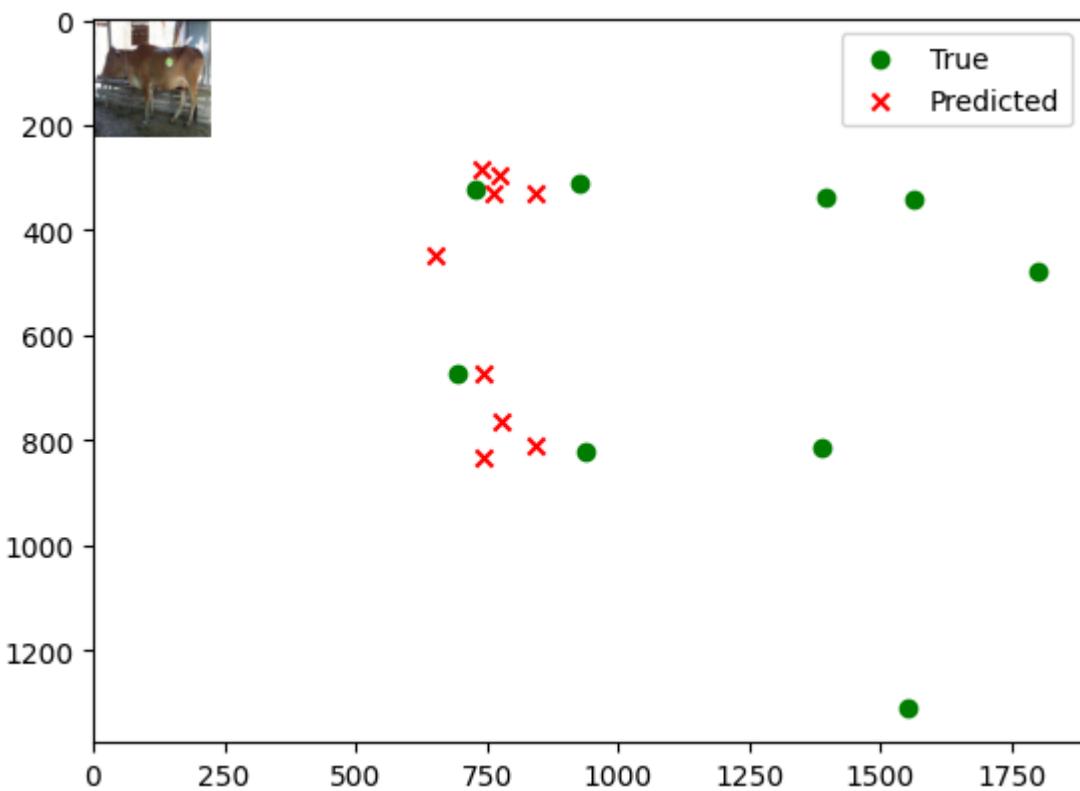


Image number: 180

True keypoints: [749. 289. 1717. 354. 690. 628. 972. 271. 970. 783. 141
5. 236.

1396. 703. 1498. 231. 1470. 1263.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[767.02844 330.7902]

[660.6338 449.37665]

[749.479 677.8188]

[849.2862 333.13568]

[850.2684 814.56726]

[782.1107 299.09738]

[785.2287 768.6692]

[745.0679 286.6654]

[749.7663 840.35913]]

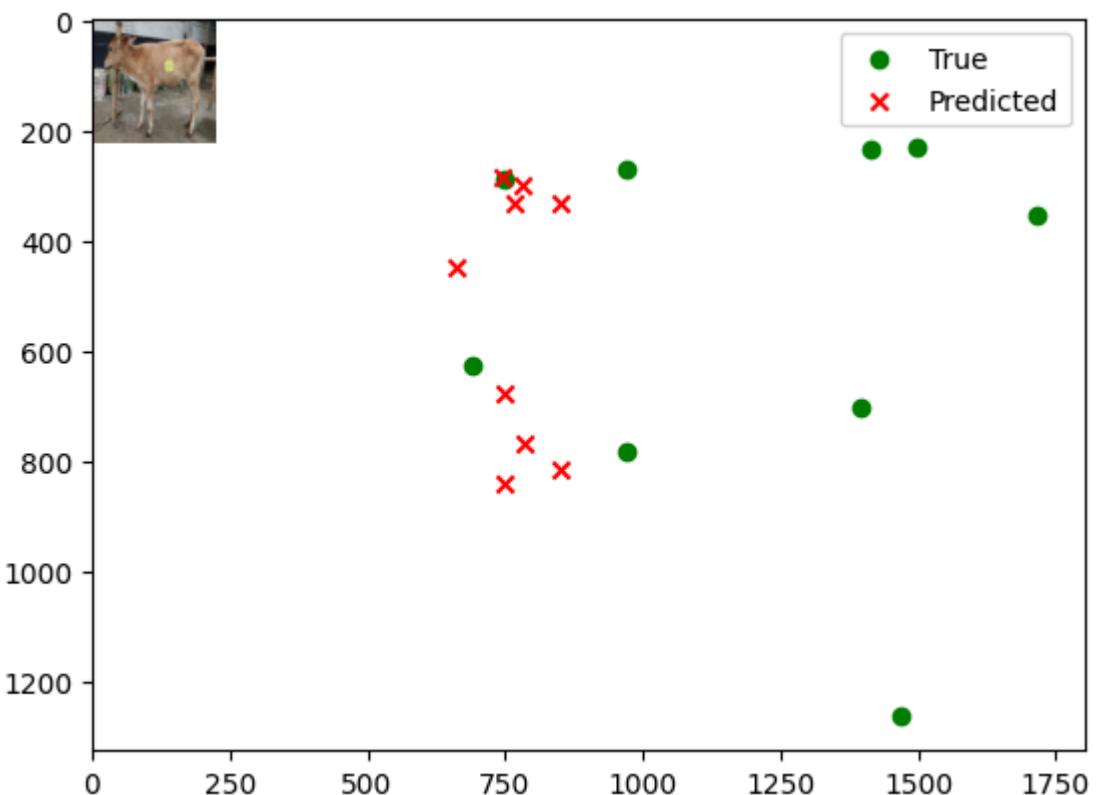


Image number: 181

True keypoints: [794. 364. 1741. 316. 731. 665. 937. 330. 965. 795. 1426. 254.

1449. 680. 1512. 236. 1557. 1252.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[815.4657 354.25497]]

[705.16 478.94083]

[796.4217 720.78516]

[904.87665 356.73184]

[905.89935 867.1899]

[834.09143 322.03033]

[837.3732 818.131]

[837.3732 818.131]
[795.07513 309.3022]

[795.07513 309.3022]
[799 81256 895 38684]

[799.81256 895.38684]

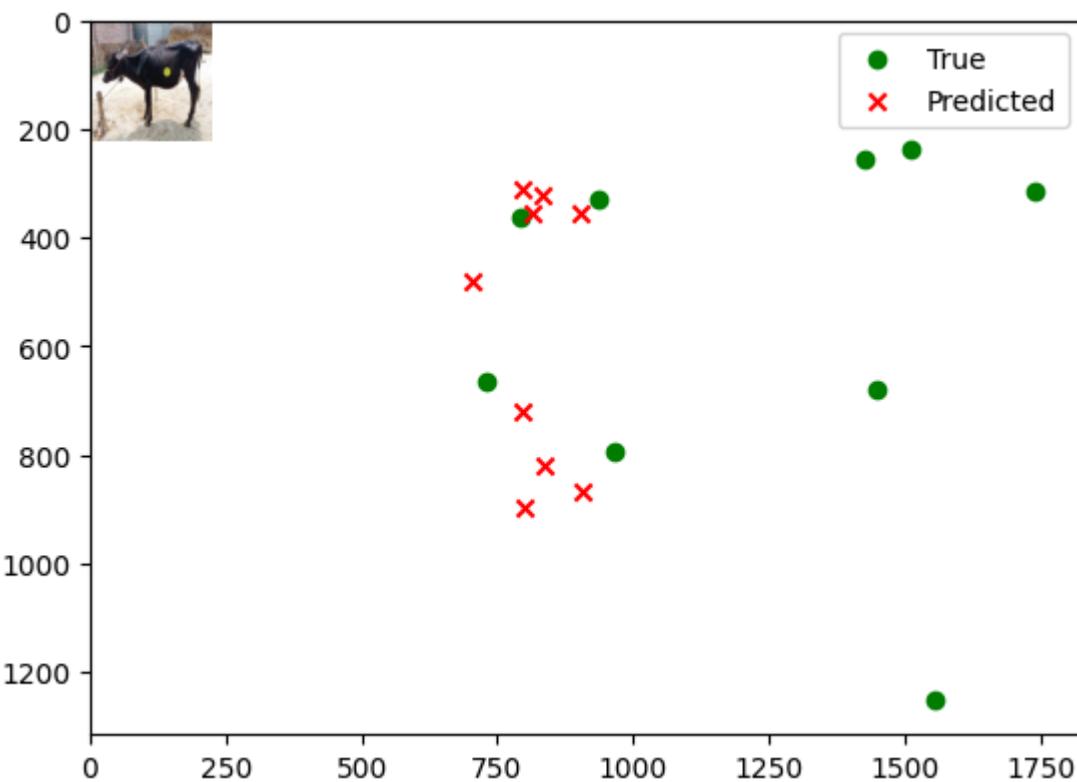


Image number: 182

True keypoints: [815. 362. 1511. 442. 796. 618. 962. 350. 976. 703. 1264. 323.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[809.44305 352.75293]

[700.334 475.9718]

[790.4764 715.6561]

[898.7592 355.08804]

[899.99927 861.20496]

[828.5984 321.2146]

[831.99884 812.3712]

[789.96173 308.70343]

[794.4485 889.2928]]

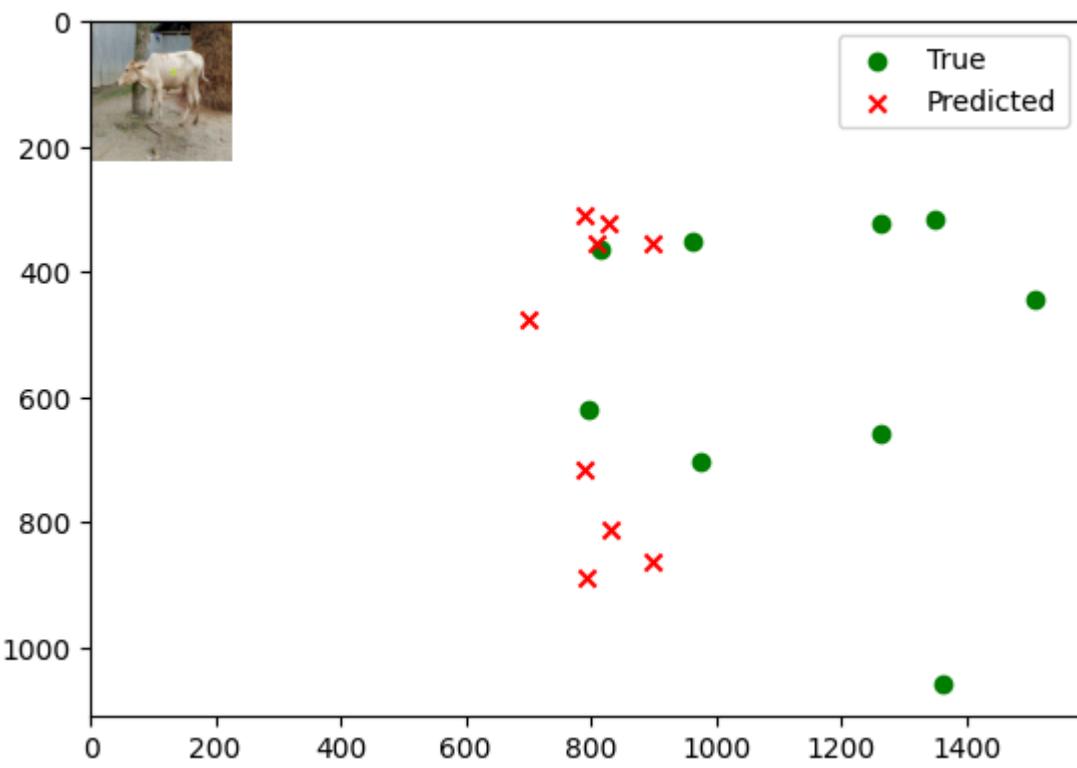


Image number: 183

True keypoints: [736. 343. 1609. 497. 682. 659. 921. 370. 940. 811. 132
5. 344.
1323. 747. 1392. 337. 1402. 1254.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[817.2759 356.5825]
[707.8395 480.78442]
[798.06396 722.61255]
[907.9028 358.97614]
[909.07587 869.7523]
[837.19275 325.0584]
[840.64514 820.42896]
[798.28735 312.5031]
[802.7789 898.32465]]

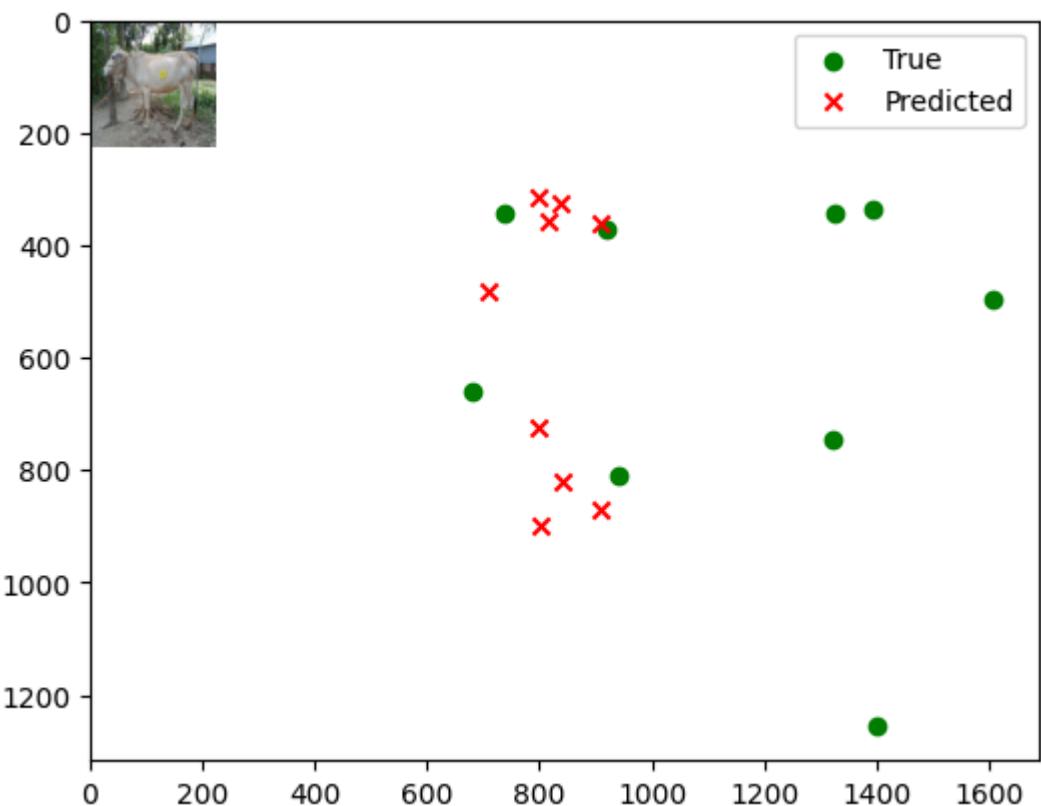


Image number: 184

True keypoints: [777. 288. 1815. 512. 738. 687. 957. 321. 964. 831. 148
4. 311.

1466. 837. 1584. 295. 1552. 1288.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[802.7247 347.98547]

[693.55615 471.13034]

[784.07135 709.43866]

[890.28217 350.46432]

[891.31305 853.3537]

[820.4785 315.92487]

[823.7416 805.1059]

[781.99725 303.27884]

[786.71924 880.93207]]

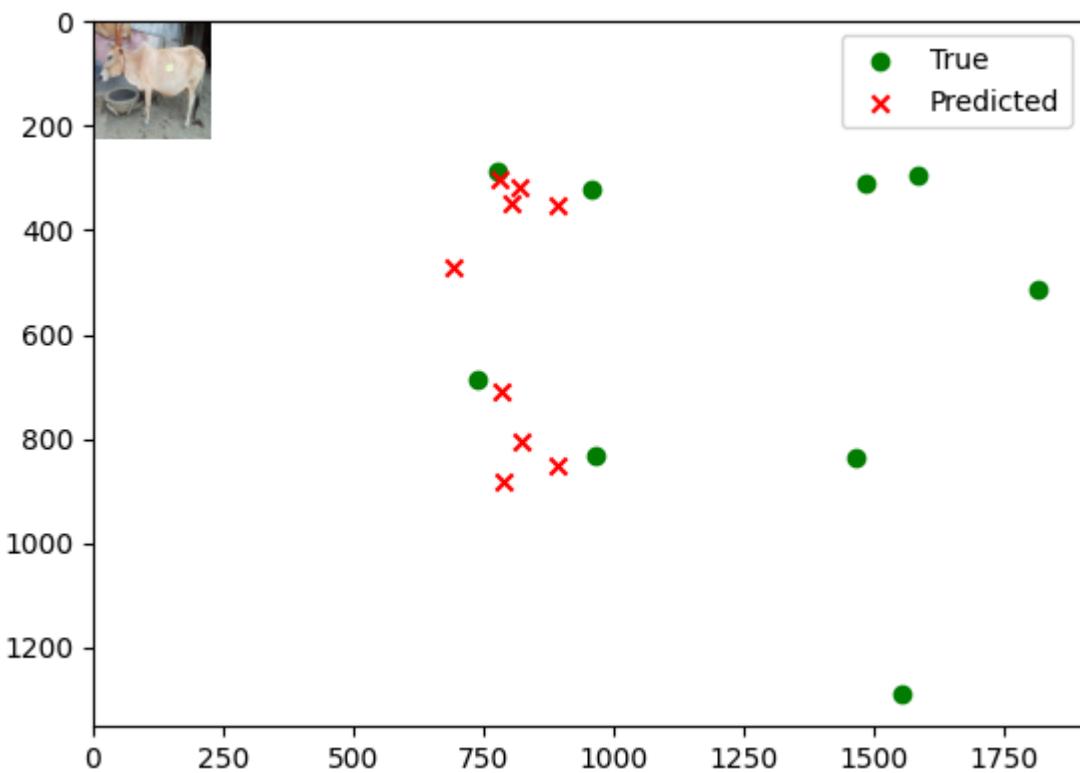


Image number: 185

True keypoints: [725. 262. 1865. 289. 788. 583. 1004. 180. 1032. 695. 143
9. 139.

1448. 664. 1619. 114. 1633. 1198.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[705.811 301.99915]

[603.1762 412.47668]

[690.1623 623.8944]

[778.8398 303.9415]

[779.9127 748.0339]

[715.89764 270.80624]

[718.8375 706.2857]

[681.1896 258.7711]

[685.7686 770.63086]]

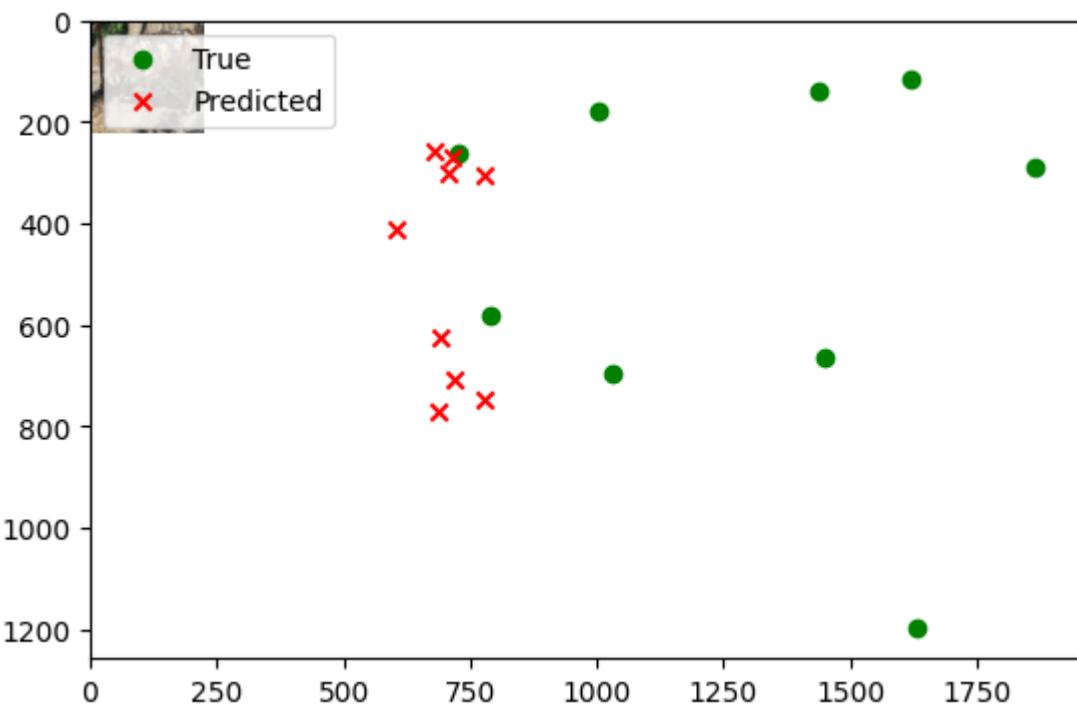


Image number: 186

True keypoints: [1162. 295. 122. 449. 1159. 642. 952. 299. 919. 808. 50. 247.]

486. 728. 411. 230. 394. 1186.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[727.3789 313.56516]

[618.9322 426.31155]

[711.5104 644.1584]

[802.37915 314.94067]

[803.432 770.69354]

[736.4929 280.88715]

[739.6743 728.5252]

[700.25305 268.5674]

[704.8661 793.6824]]

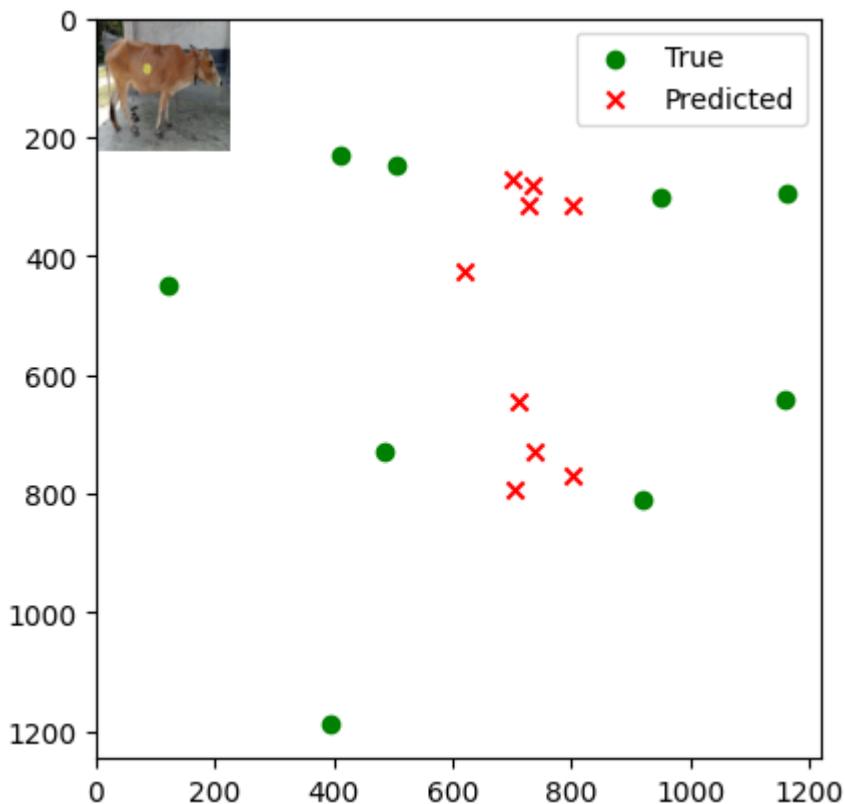


Image number: 187

True keypoints: [742. 236. 1688. 365. 680. 621. 919. 271. 921. 735. 139
4. 233.]

1399. 667. 1486. 221. 1500. 1223.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[745.11536 319.74274]]

[639.88763 435.75177]

[728.2423 658.3114]

[823.7167 322.0362]

[824.6781 790.5135]

[758.05646 287.97665]

[761.0389 746.10114]

[721.8045 275.61356]

[726.5876 815.0736]

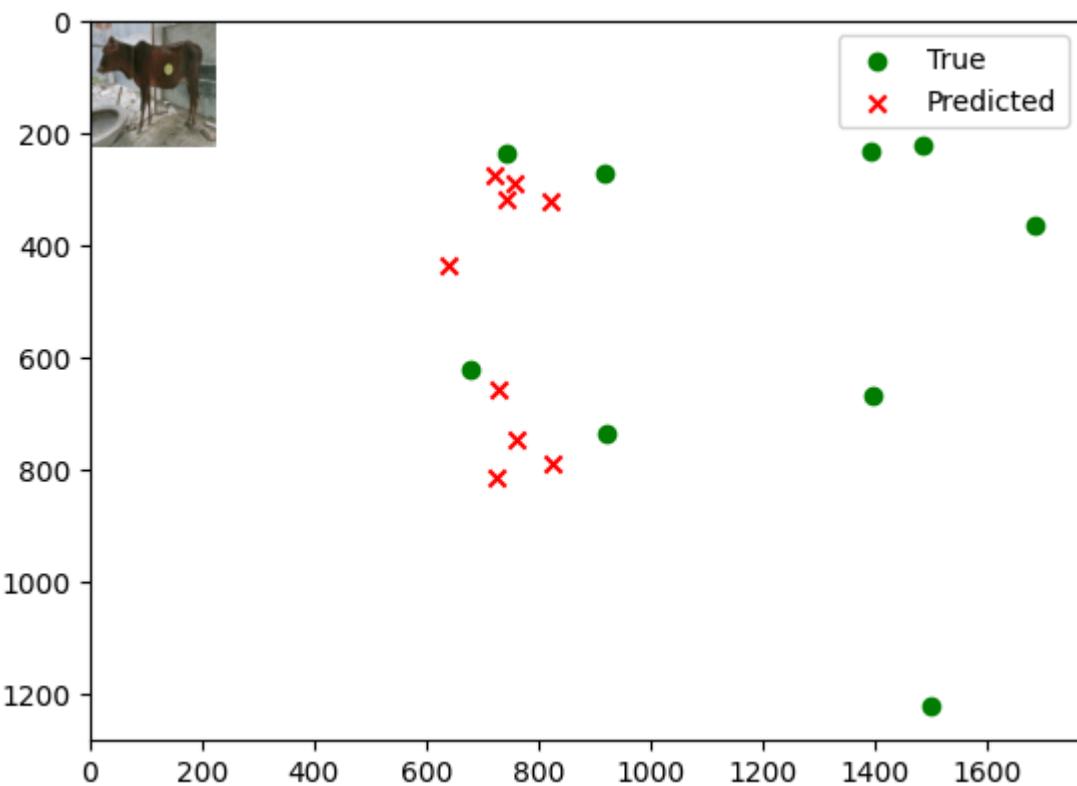


Image number: 188

True keypoints: [630. 183. 1585. 271. 644. 497. 825. 175. 848. 635. 127 0. 135.

1281. 599. 1386. 124. 1405. 1125.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[731.1587 314.08322]

[628.45734 427.8151]

[714.54504 645.94995]

[808.66565 316.3676]

[809.7815 775.97144]

[744.41113 283.29782]

[747.4611 732.21387]

[708.99524 271.1982]

[713.5064 800.1731]]

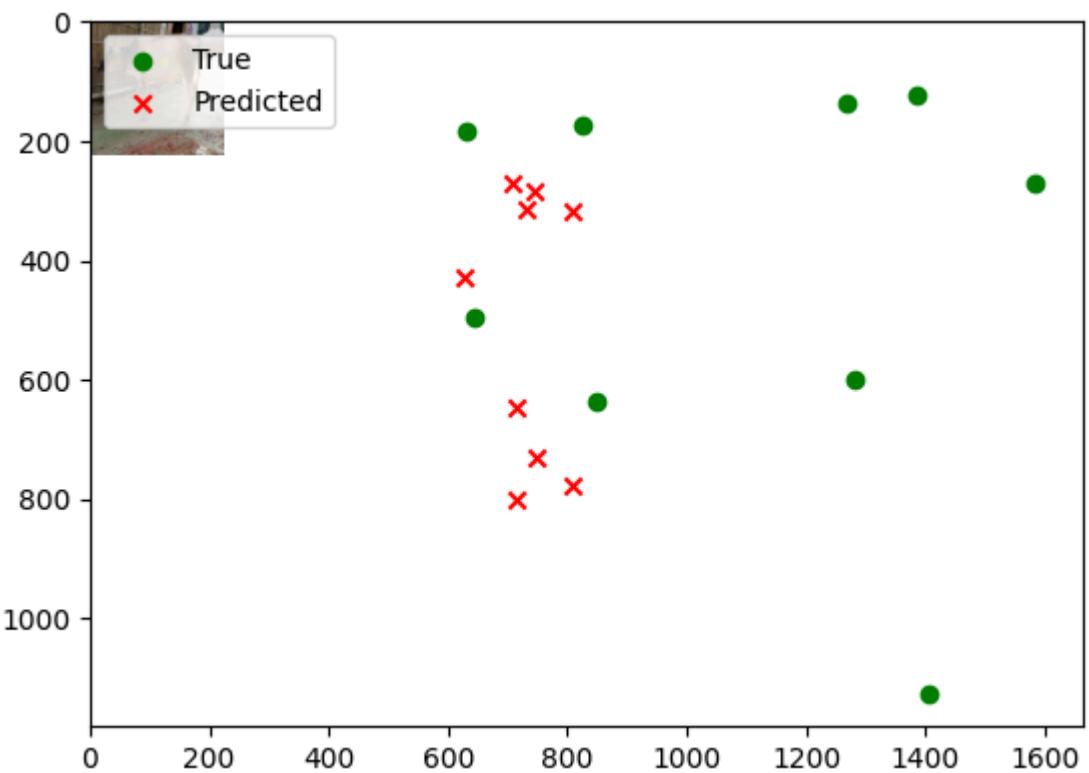


Image number: 189

True keypoints: [1164. 318. 97. 365. 1184. 628. 924. 316. 928. 799. 46
1. 236.

477. 739. 350. 210. 409. 1230.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[721.12115 311.7169]
[614.206 423.08014]
[705.2928 638.71936]
[796.02545 313.05475]
[797.2061 764.4239]
[730.8455 279.78198]
[734.10504 722.5041]
[695.0691 267.68155]
[699.45776 787.38904]]

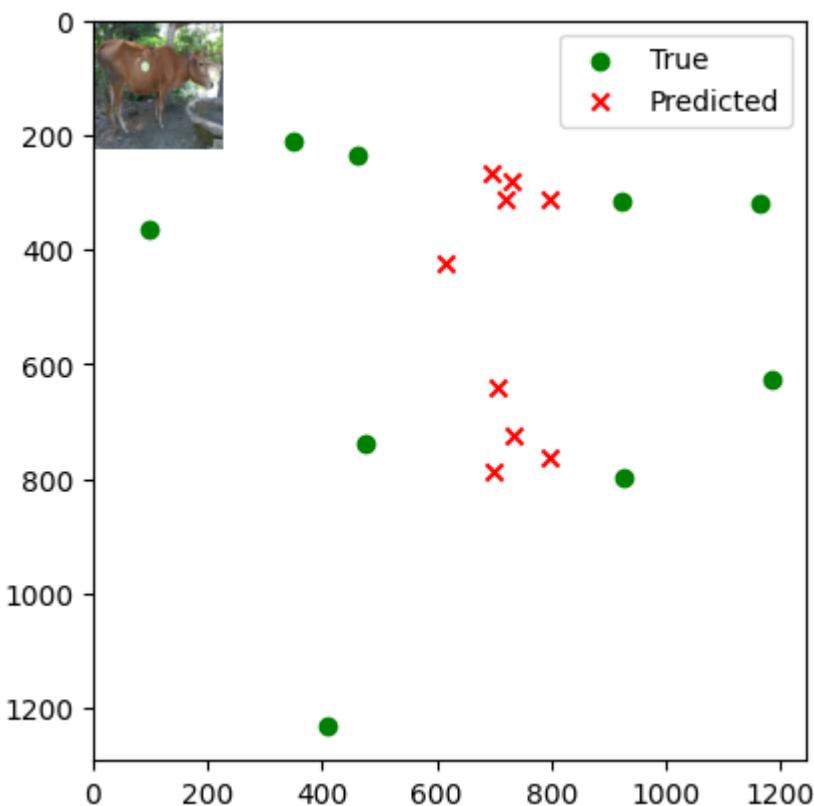


Image number: 190

True keypoints: [709. 334. 1553. 491. 735. 655. 918. 359. 926. 811. 127
1. 378.

1277. 798. 1368. 366. 1384. 1190.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[806.39105 350.372]

[697.14856 473.66772]

[787.57996 712.7988]

[894.7761 352.79242]

[895.87415 857.54956]

[824.74963 318.50317]

[828.0595 809.0006]

[786.16504 305.8793]

[790.8156 885.379]]

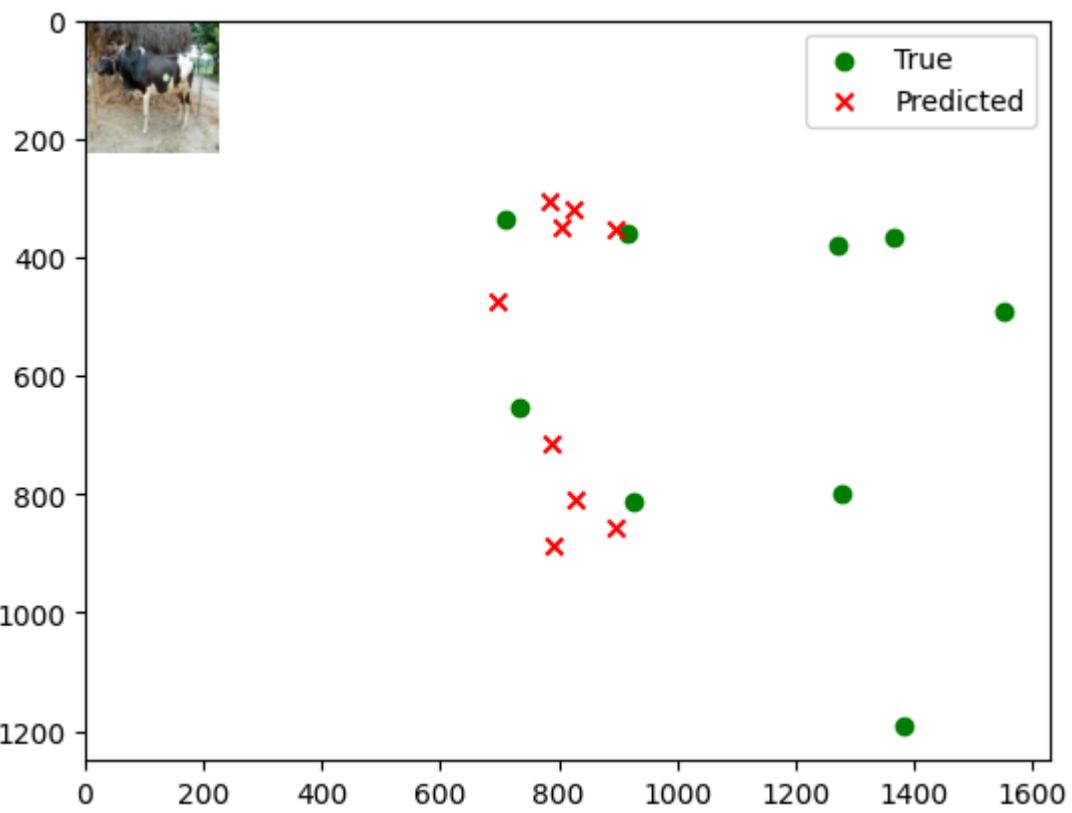


Image number: 191

True keypoints: [672. 294. 1732. 473. 691. 661. 880. 330. 889. 838. 134. 5. 299.

1338. 779. 1481. 273. 1481. 1259.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[755.26935 325.28107]

[648.4404 442.29623]

[738.19 667.66205]

[835.2849 327.44073]

[836.30786 801.5052]

[768.57556 293.2846]

[771.6717 756.6347]

[731.7986 280.8586]

[736.5342 826.48065]]

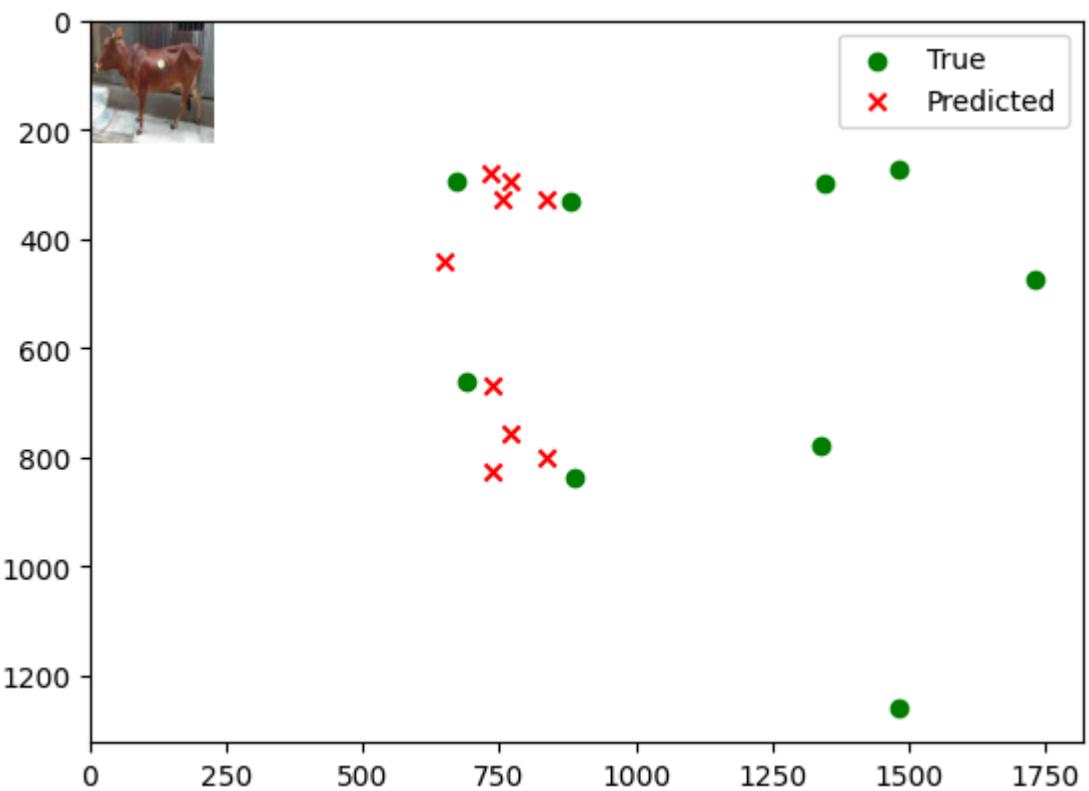


Image number: 192

True keypoints: [727. 321. 1762. 492. 694. 664. 929. 322. 948. 826. 139
8. 313.

1396. 779. 1509. 302. 1509. 1362.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[808.21436 351.37134]

[699.0188 474.8604]

[789.3635 714.44763]

[897.0209 353.79837]

[898.1297 859.6098]

[826.8734 319.57346]

[830.2307 810.92847]

[788.26886 306.97015]

[792.8611 887.57874]]

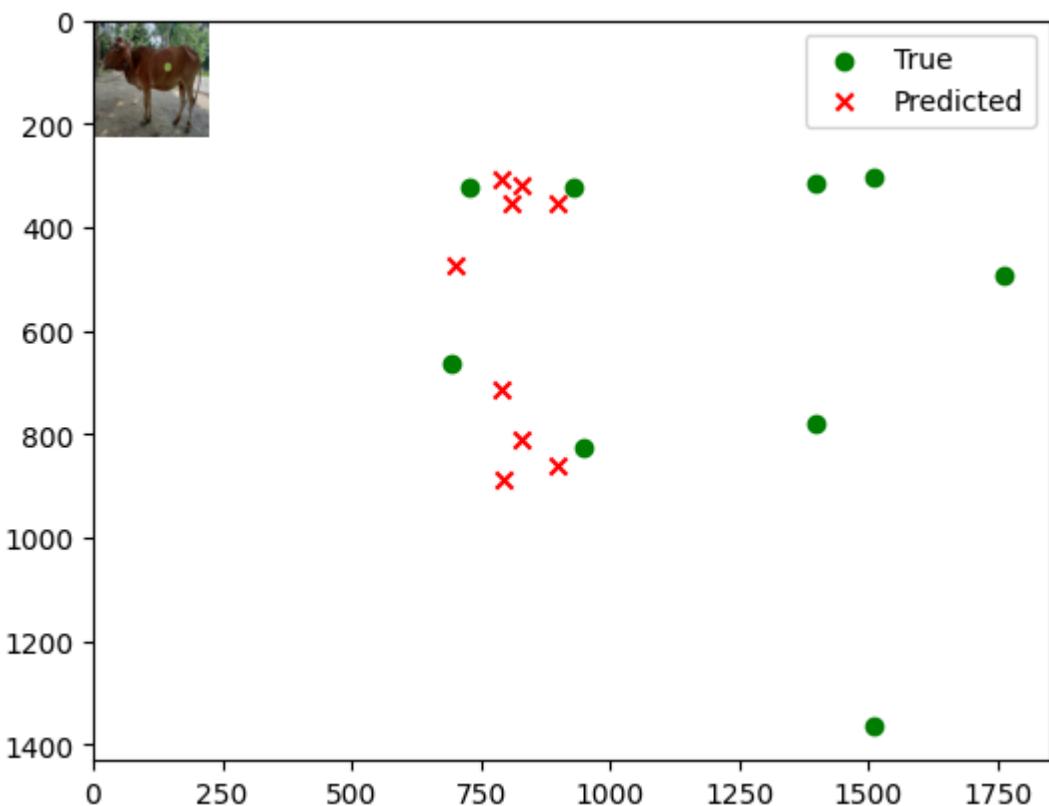


Image number: 193

True keypoints: [1257. 319. 266. 446. 1308. 639. 1025. 345. 1044. 799. 56. 269.

586. 740. 486. 259. 524. 1247.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[710.75806 305.2076]

[605.71747 415.93048]

[695.1515 628.8956]

[784.0007 306.7941]

[785.151 753.1259]

[720.1069 273.43195]

[723.13367 711.5144]

[684.87524 261.33737]

[689.38947 775.6398]]

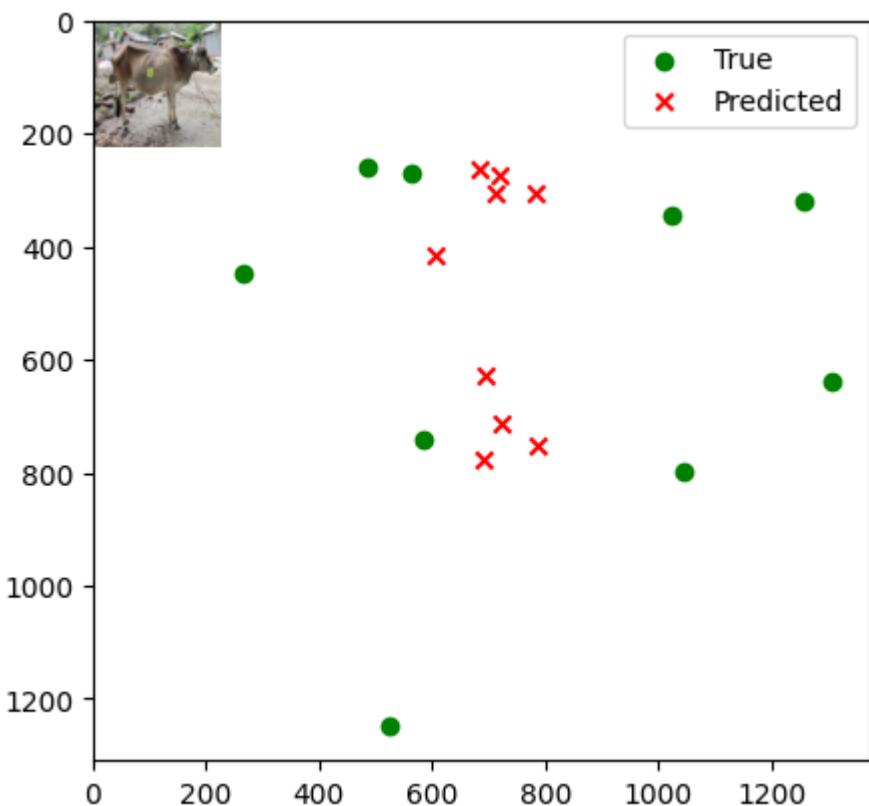


Image number: 194

True keypoints: [722. 301. 1649. 430. 655. 619. 889. 328. 880. 763. 129. 5. 283.

1293. 712. 1415. 255. 1386. 1174.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[787.95197 341.86584]

[680.7739 462.62204]

[769.6471 696.4481]

[874.0028 344.24683]

[875.15027 837.7794]

[805.5016 310.53427]

[808.7733 790.3061]

[767.77234 298.1062]

[772.30817 864.78674]]

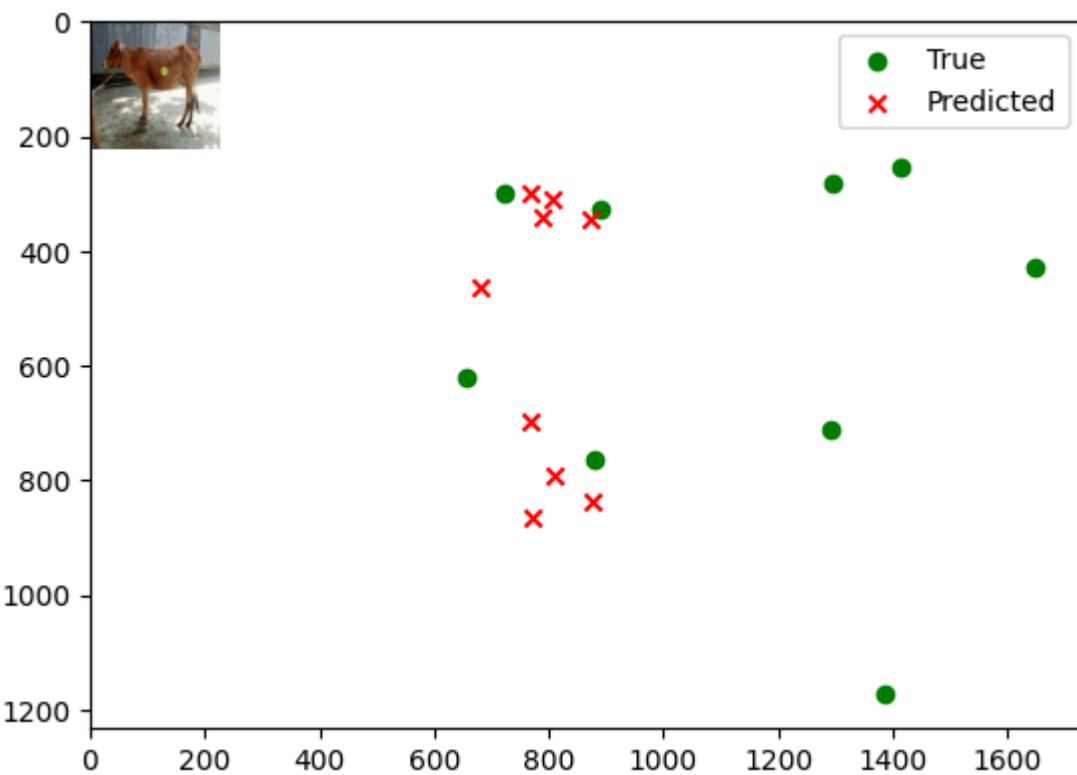


Image number: 195

True keypoints: [681. 341. 1635. 458. 630. 680. 841. 353. 851. 828. 133
9. 308. 1327. 745. 1422. 295. 1423. 1319.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[822.926 359.15613]
[713.0456 484.14615]
[803.55963 727.58563]
[914.32874 361.58932]
[915.47656 875.8479]
[843.18823 327.52145]
[846.658 826.16095]
[804.05853 314.92395]
[808.5775 904.6687]]

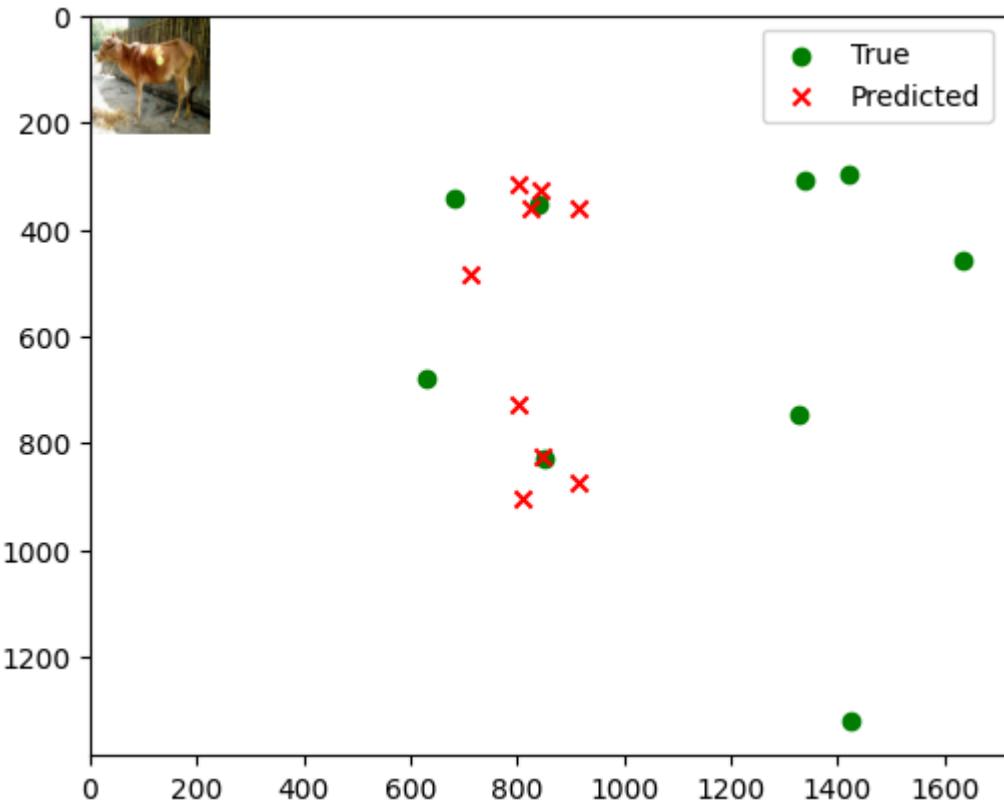


Image number: 196

True keypoints: [1184. 478. 278. 589. 1161. 781. 983. 471. 965. 893. 54
2. 434.

552. 839. 486. 428. 515. 1273.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[777.6564 338.54114]

[666.8788 457.2641]

[760.0702 688.63776]

[860.9988 340.1371]

[862.1129 825.86847]

[791.8354 306.05356]

[795.2367 780.124]

[753.85 293.6185]

[758.36096 851.7628]]

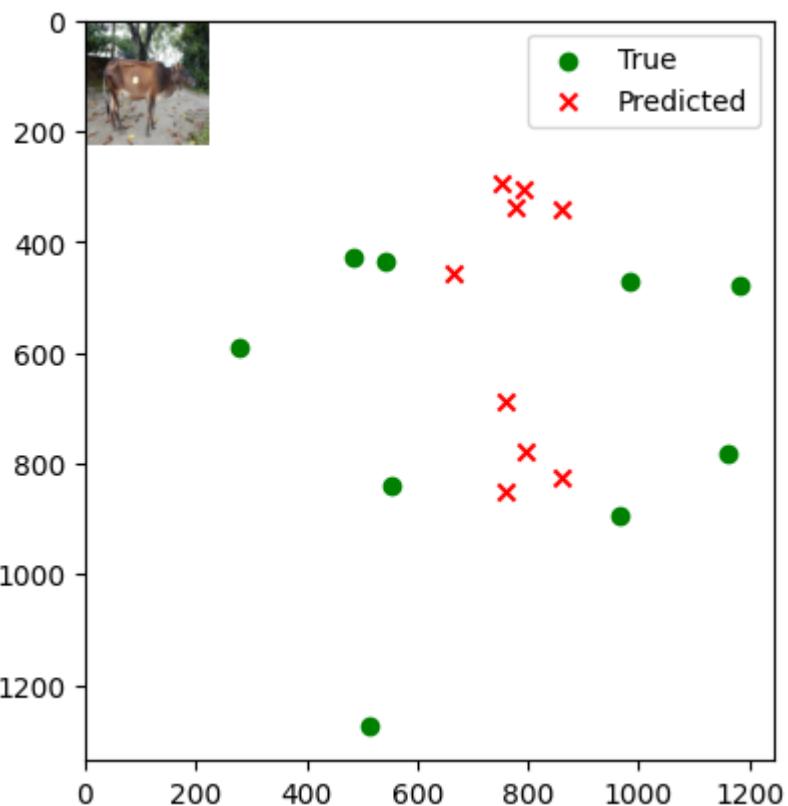


Image number: 197

True keypoints: [657. 385. 1556. 463. 609. 685. 804. 377. 822. 810. 127
2. 318.

1278. 721. 1351. 310. 1372. 1206.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[853.0419 373.56494]

[740.6416 502.4497]

[832.80884 754.33124]

[948.81616 376.10446]

[949.8391 908.44904]

[875.3205 341.457]

[878.8999 856.9221]

[834.9394 328.65814]

[839.5432 938.78735]]

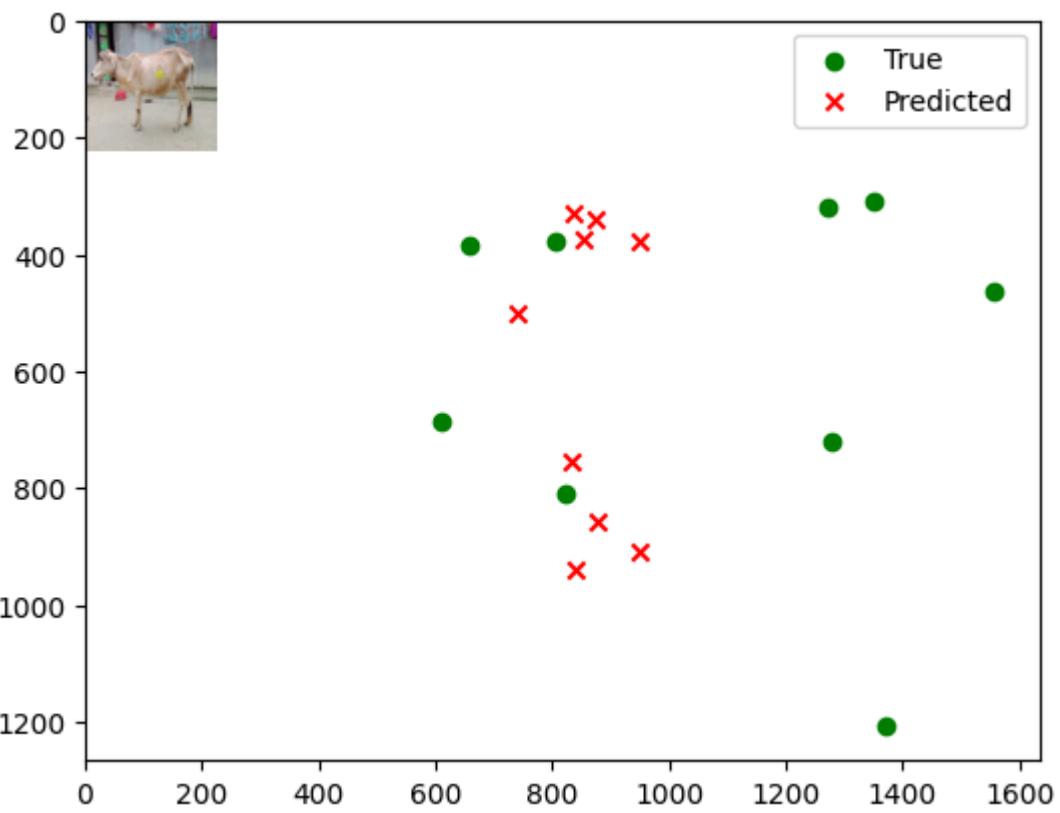


Image number: 198

True keypoints: [814. 340. 1786. 467. 764. 675. 985. 348. 996. 803. 145
2. 331.

1444. 750. 1557. 313. 1538. 1250.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[793.3807 343.43433]

[684.98895 465.4059]

[775.0156 701.1307]

[879.5582 345.905]

[880.5872 843.20953]

[810.4609 311.5174]

[813.68567 795.53784]

[772.3826 298.90765]

[777.0865 870.31384]]

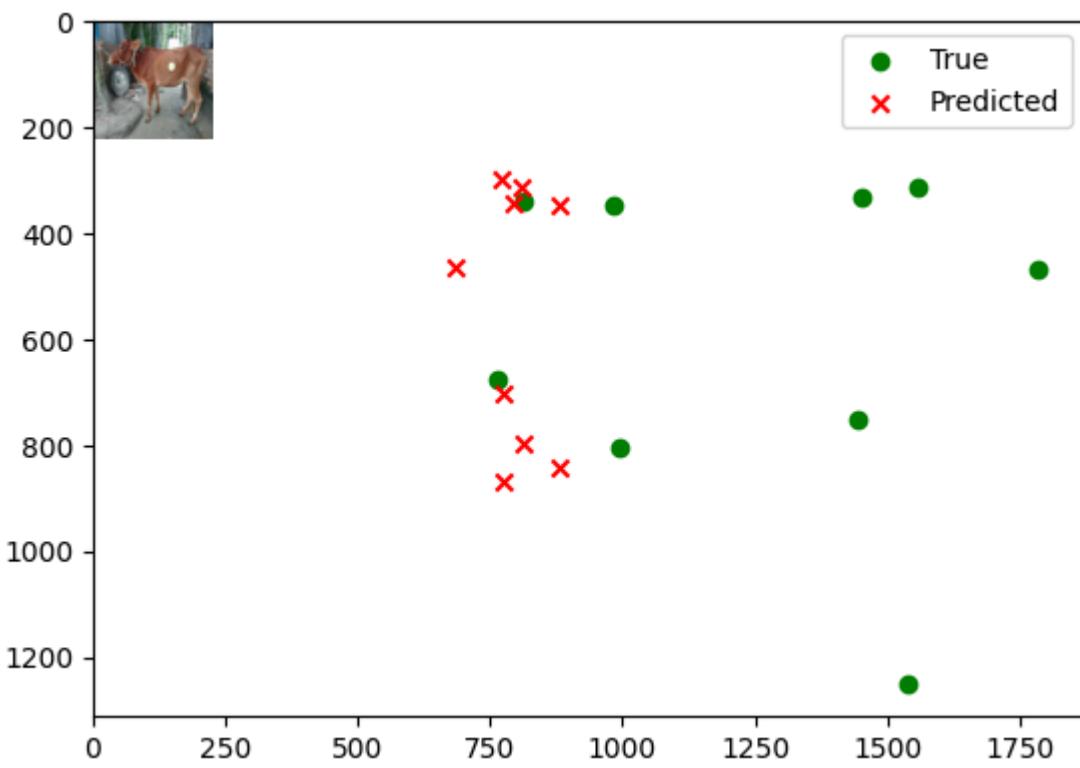


Image number: 199

True keypoints: [741. 323. 1542. 389. 732. 598. 897. 334. 904. 724. 126
9. 296.

1282. 657. 1366. 284. 1391. 1095.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[798.7157 346.92517]
[690.40906 469.108]
[780.10254 706.0021]
[886.1929 349.33734]
[887.35565 849.3693]
[816.8426 315.36487]
[820.1515 801.2395]
[778.6333 302.8443]
[783.20667 876.86725]]

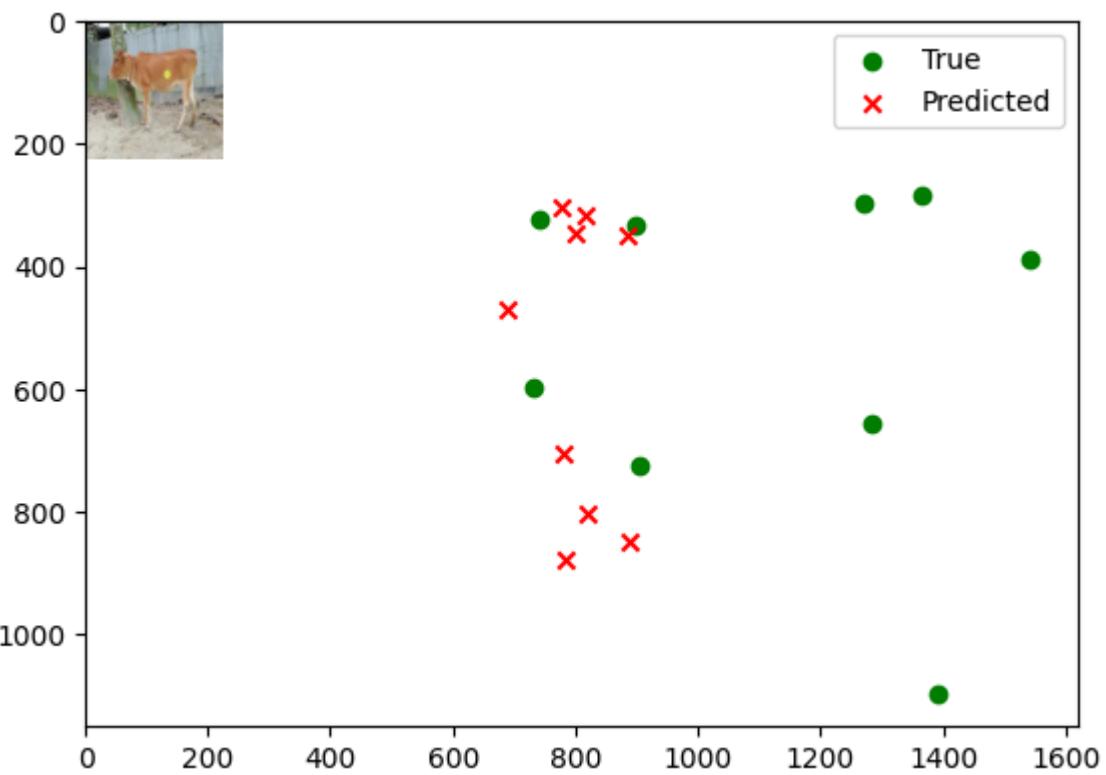


Image number: 200

True keypoints: [681. 479. 1459. 596. 656. 754. 845. 504. 867. 882. 122. 5. 472.

1235. 813. 1290. 459. 1305. 1207.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[815.6819 355.3811]
[706.2257 479.61725]
[796.5533 721.1407]
[905.83997 357.8311]
[906.9843 867.8972]
[835.2154 323.72177]
[838.6134 818.68555]
[796.3596 311.12964]
[800.93524 896.3213]]

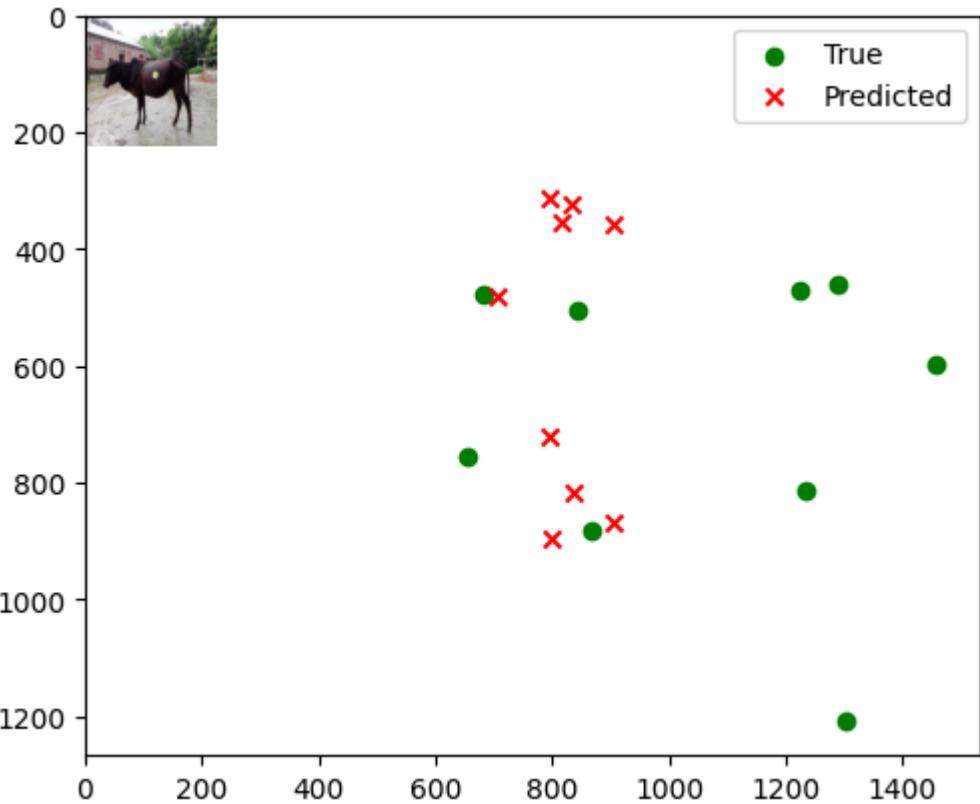


Image number: 201

True keypoints: [1288. 307. 306. 431. 1294. 636. 1032. 289. 1036. 765. 59. 7. 270.

619. 747. 516. 257. 548. 1248.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[814.12915 353.3948]

[703.8978 478.0218]

[795.13904 719.5613]

[903.26056 355.9099]

[904.2964 865.67004]

[832.57367 321.14447]

[835.8688 816.7187]

[793.6014 308.41617]

[798.37573 893.77386]]

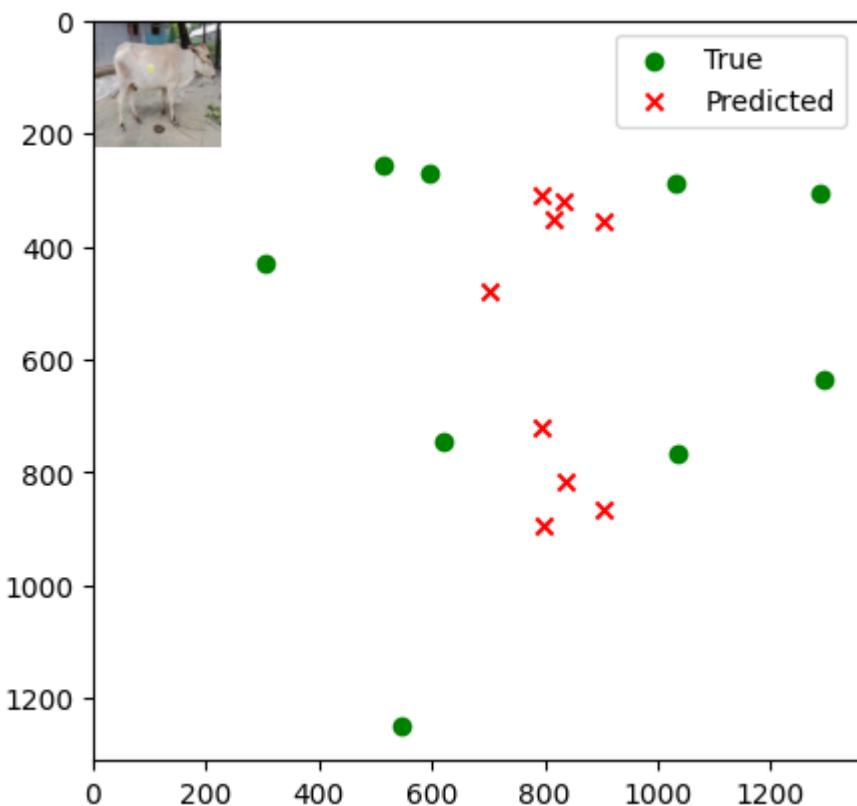


Image number: 202

True keypoints: [643. 417. 1673. 475. 660. 722. 883. 400. 912. 879. 136
6. 368.

1378. 828. 1459. 363. 1487. 1373.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[809.8712 352.41525]

[700.39795 475.94342]

[790.9406 715.977]

[898.8951 354.79483]

[899.97754 861.3996]

[828.5926 320.56592]

[831.9308 812.68]

[789.87933 307.9658]

[794.5006 889.45264]]

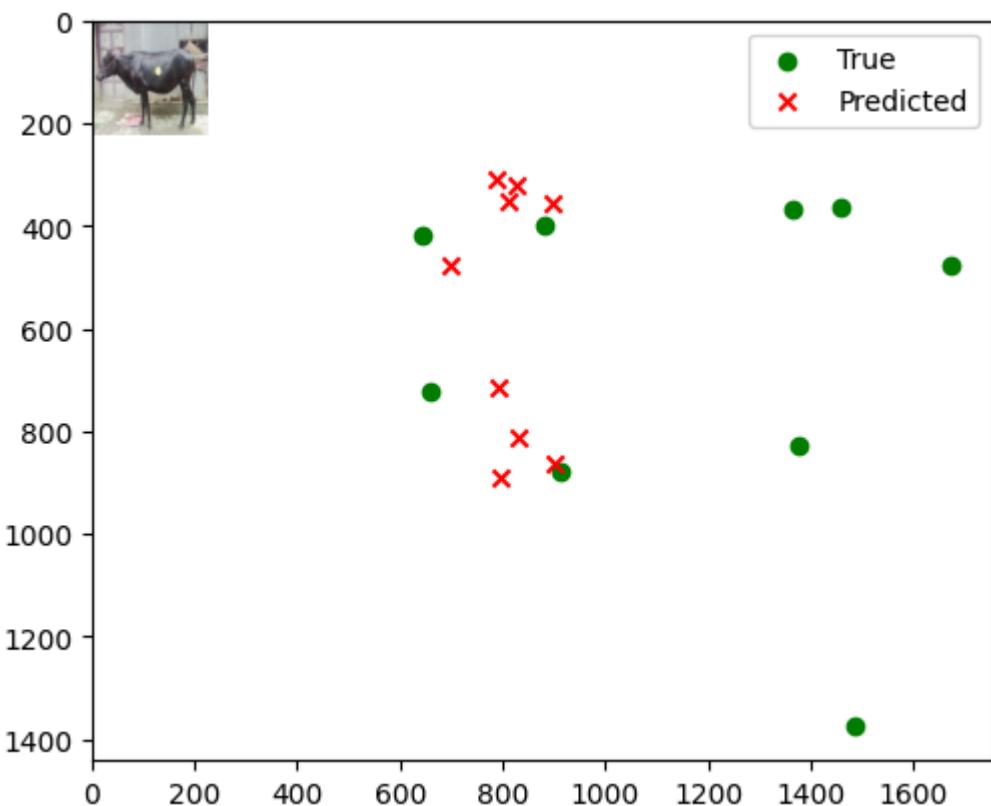


Image number: 203

True keypoints: [728. 388. 1646. 528. 677. 716. 889. 397. 911. 865. 137
7. 372.

1390. 799. 1451. 376. 1485. 1323.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[810.5841 352.81653]

[701.25336 476.4121]

[791.63556 716.6058]

[899.83374 355.225]

[900.9061 862.24677]

[829.50183 321.02817]

[832.8653 813.4405]

[790.7948 308.44775]

[795.40894 890.36365]]

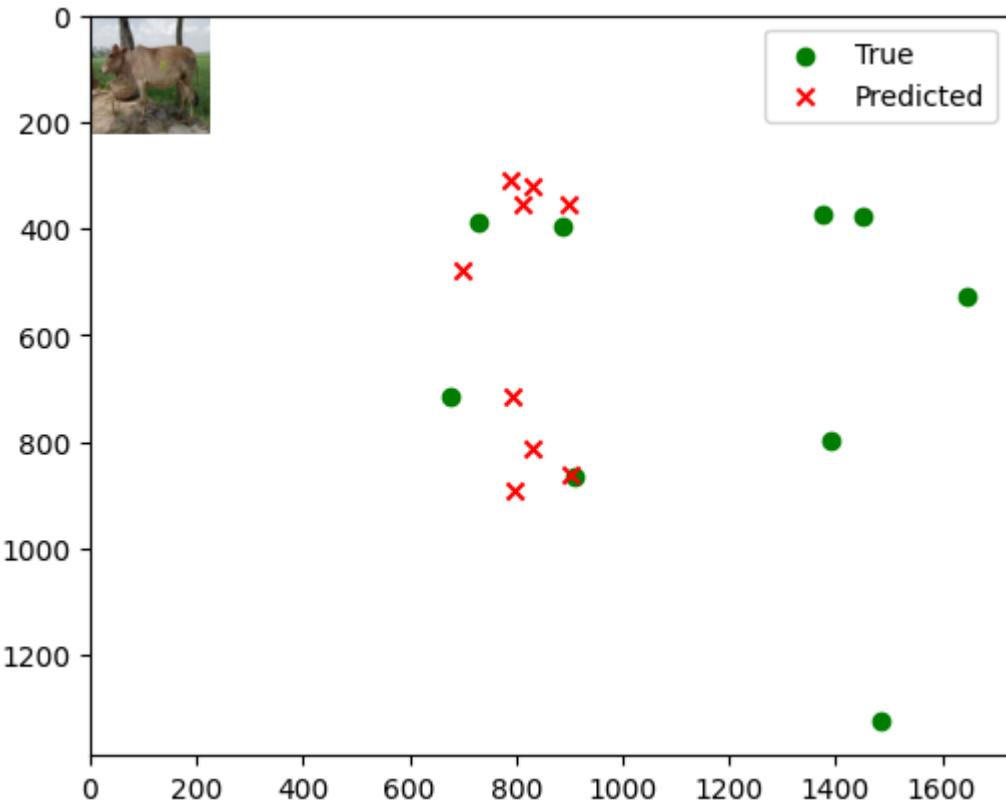


Image number: 204

True keypoints: [691. 203. 1703. 347. 621. 561. 873. 208. 891. 713. 134
4. 186.

1351. 638. 1470. 172. 1490. 1203.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[753.56885 324.96622]

[648.97375 441.49902]

[736.3161 665.886]

[834.3672 327.29245]

[835.5024 800.3302]

[768.40753 293.91174]

[771.5326 755.10913]

[732.06433 281.66083]

[736.59827 825.60614]]

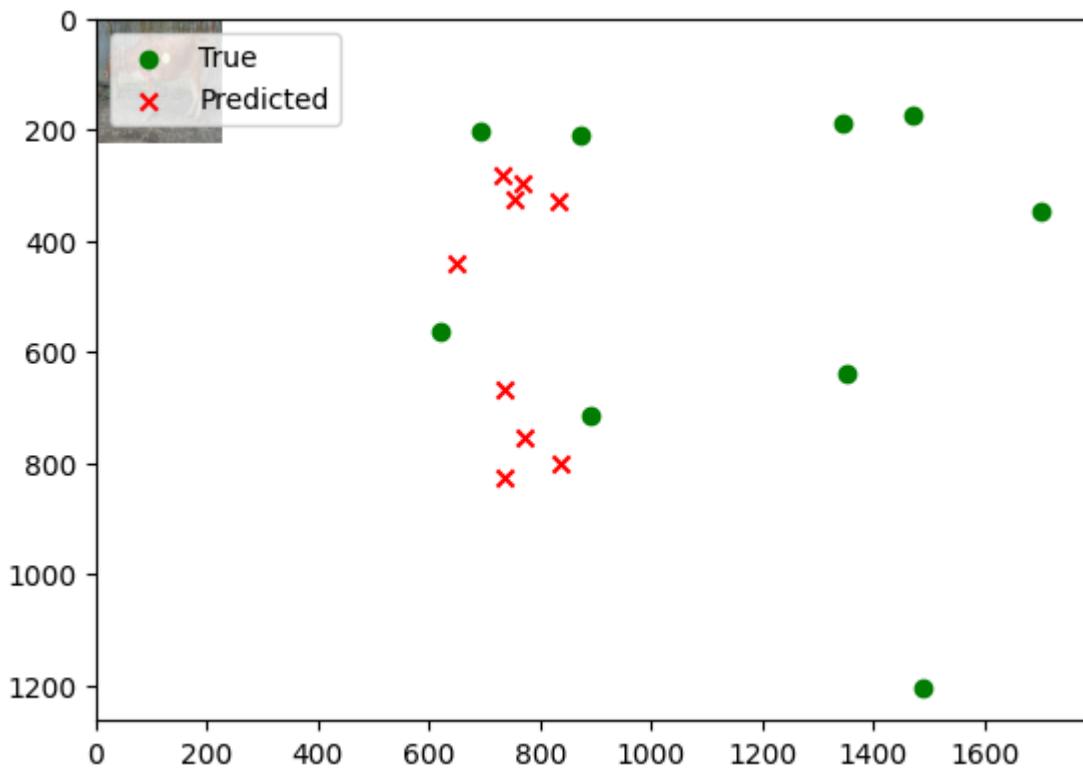


Image number: 205

True keypoints: [698. 295. 1528. 361. 672. 563. 842. 283. 865. 717. 126
5. 293.

1276. 686. 1395. 272. 1411. 1057.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[799.94885 347.86185]
[691.9476 470.03647]
[781.2733 707.13574]
[887.9077 350.25958]
[889.0553 850.8724]
[818.5065 316.48657]
[821.8662 802.6312]
[780.32245 304.00497]
[784.8427 878.5341]]

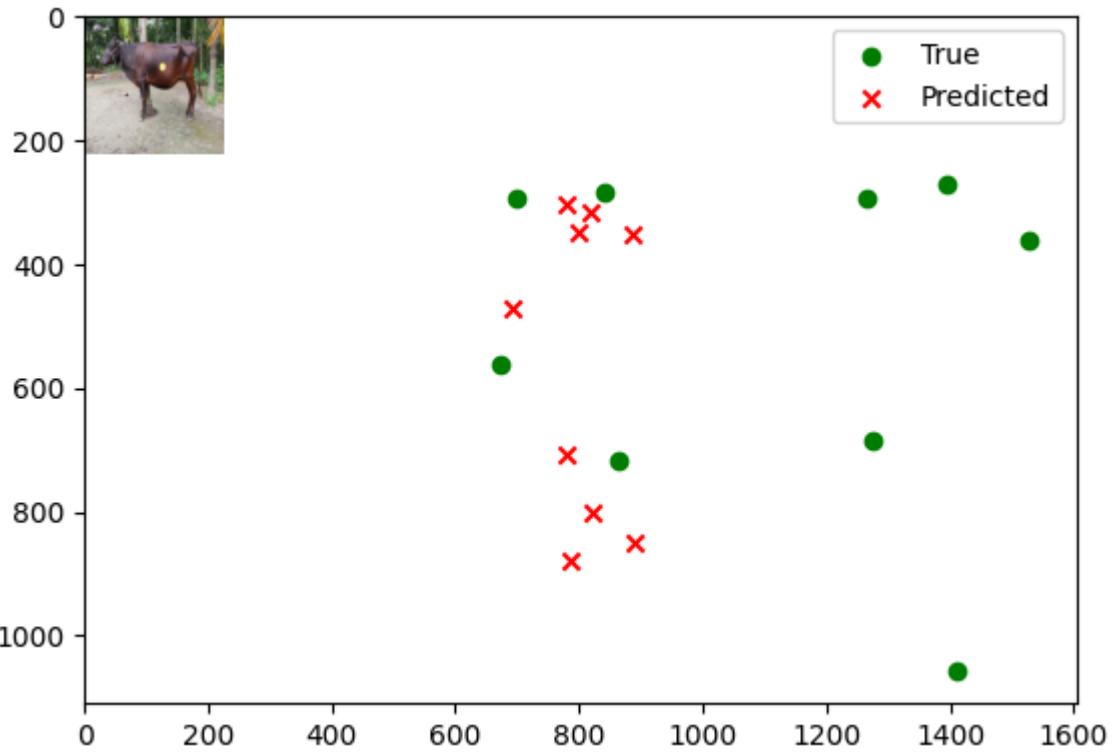


Image number: 206

True keypoints: [783. 308. 1667. 453. 685. 629. 942. 328. 953. 768. 136
0. 306.

1367. 724. 1479. 293. 1466. 1257.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[792.0606 343.7308]
[683.983 465.03882]
[773.6469 700.111]
[878.42255 346.07648]
[879.6537 842.09375]
[809.5492 312.15656]
[812.79346 794.41766]
[771.5392 299.66278]
[776.10547 869.20215]]

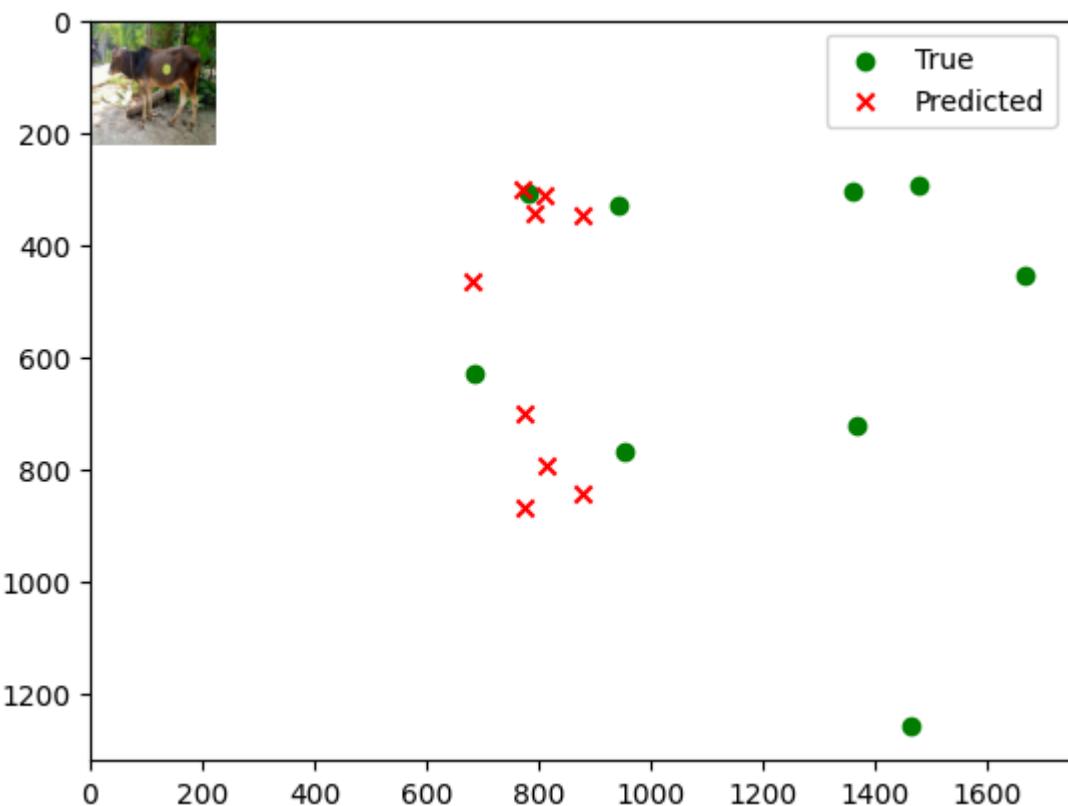


Image number: 207

True keypoints: [1092. 337. 225. 432. 1119. 628. 897. 342. 897. 775. 50. 8. 299.

519. 704. 430. 283. 449. 1187.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[680.5695 293.7232]

[570.0351 399.33032]

[666.5718 604.42096]

[747.3143 293.9182]

[748.50446 719.06104]

[683.08435 260.15347]

[686.36646 681.28076]

[647.8803 248.07599]

[652.276 738.8094]]

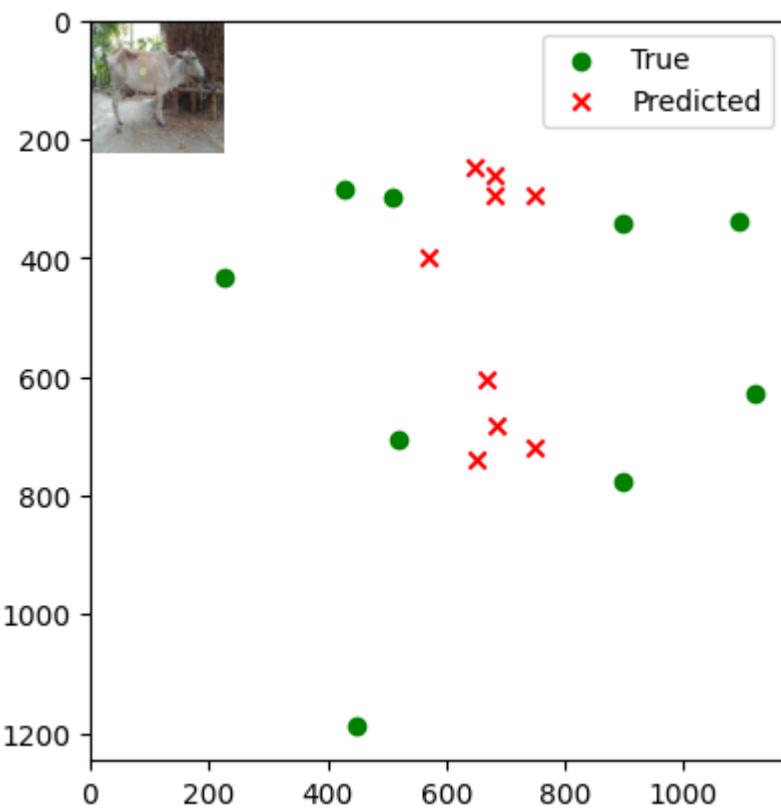


Image number: 208

True keypoints: [690. 288. 1711. 445. 661. 624. 871. 286. 904. 800. 137
7. 275.

1383. 736. 1481. 270. 1501. 1306.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[799.9381 347.437]

[691.71765 469.8197]

[781.30536 707.0547]

[887.6461 349.88434]

[888.76245 850.70306]

[818.2083 315.88016]

[821.5248 802.4874]

[779.98694 303.33936]

[784.56775 878.276]]

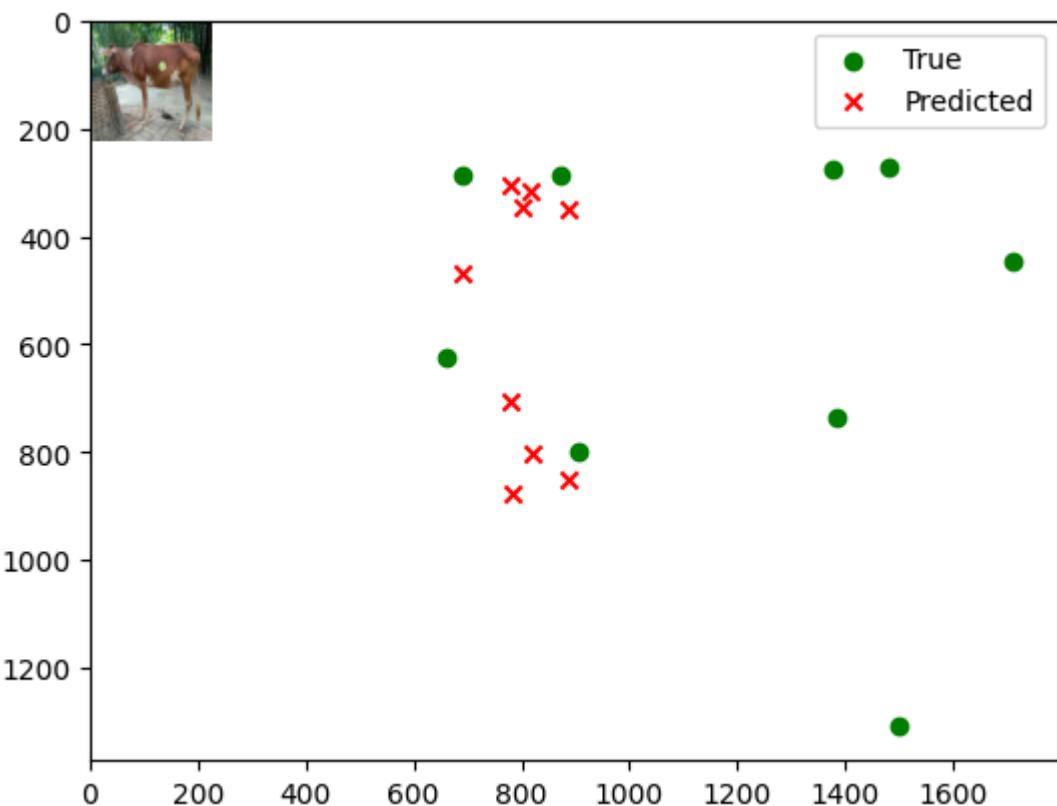


Image number: 209

True keypoints: [677. 393. 1604. 464. 660. 692. 885. 393. 917. 857. 1310. 333.

1332. 772. 1404. 314. 1446. 1297.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[840.84534 368.01407]

[729.5459 495.1796]

[820.94727 743.54395]

[934.96857 370.45837]

[936.10767 895.35065]

[862.45844 336.20358]

[866.00793 844.5187]

[822.60834 323.50797]

[827.1327 925.0857]]

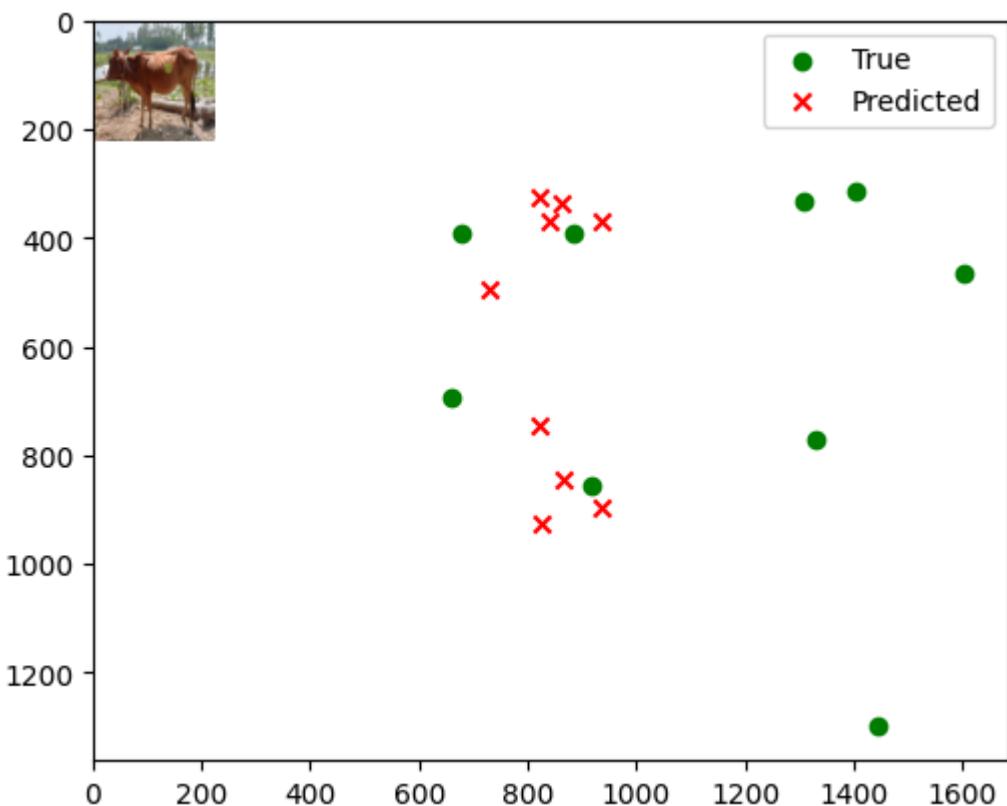


Image number: 210

True keypoints: [686. 360. 1685. 422. 726. 641. 940. 285. 967. 798. 140
8. 242.

1403. 714. 1499. 244. 1481. 1185.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[792.33795 343.4069]

[684.3512 465.00888]

[773.94965 700.2722]

[878.64185 345.8434]

[879.75806 842.2912]

[809.73444 311.76254]

[812.9532 794.6194]

[771.7479 299.23035]

[776.3762 869.416]]

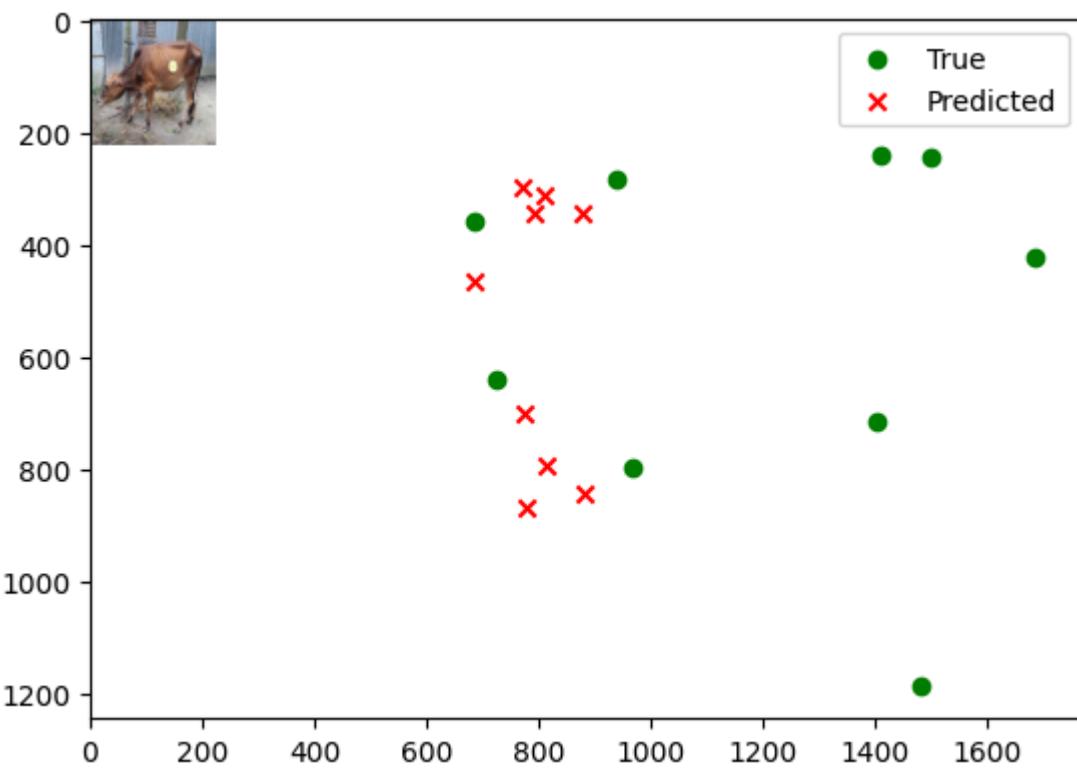


Image number: 211

True keypoints: [697. 216. 1812. 375. 655. 565. 895. 234. 904. 750. 146
5. 205.

1457. 684. 1531. 191. 1534. 1187.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[734.5521 315.57227]
[630.7274 429.83374]
[717.96216 649.10895]
[812.1518 317.78018]
[813.2471 779.4271]
[747.3844 284.4237]
[750.4171 735.61676]
[711.6647 272.192]
[716.2299 803.5952]]

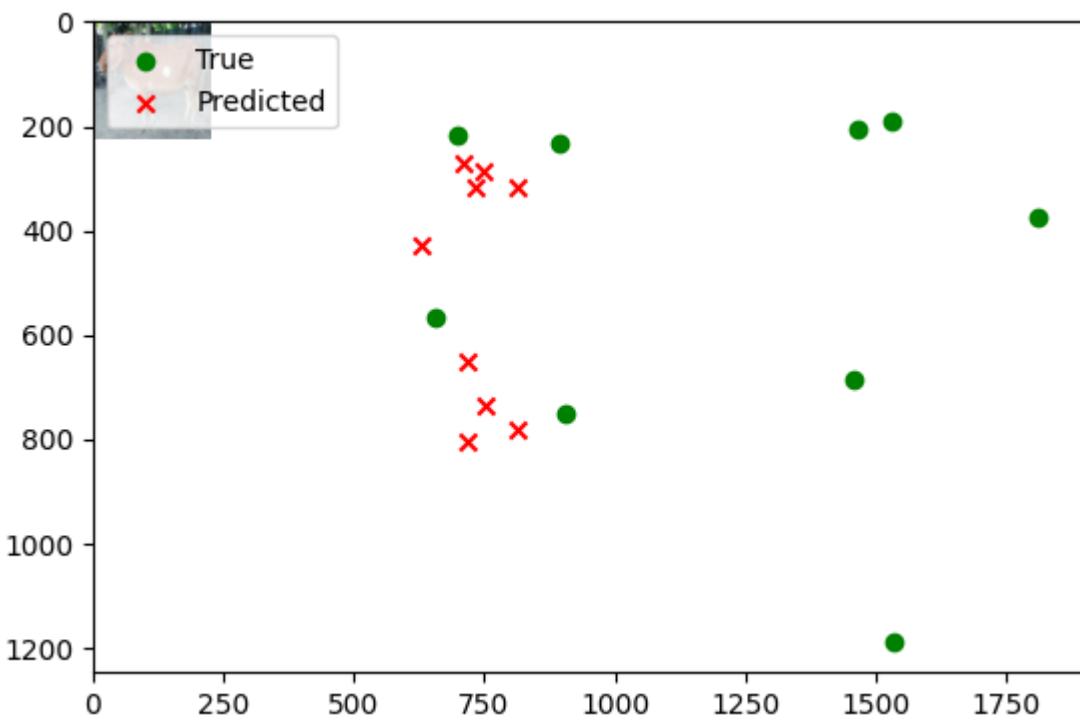


Image number: 212

True keypoints: [654. 297. 1693. 402. 601. 618. 837. 269. 845. 784. 136
5. 256.

1368. 734. 1446. 250. 1467. 1279.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[771.7536 333.73544]

[665.8504 452.58347]

[753.97455 682.0127]

[855.2965 336.12805]

[856.3779 820.08923]

[787.98004 302.47772]

[791.1728 773.7256]

[750.91644 290.1454]

[755.4789 846.28973]]

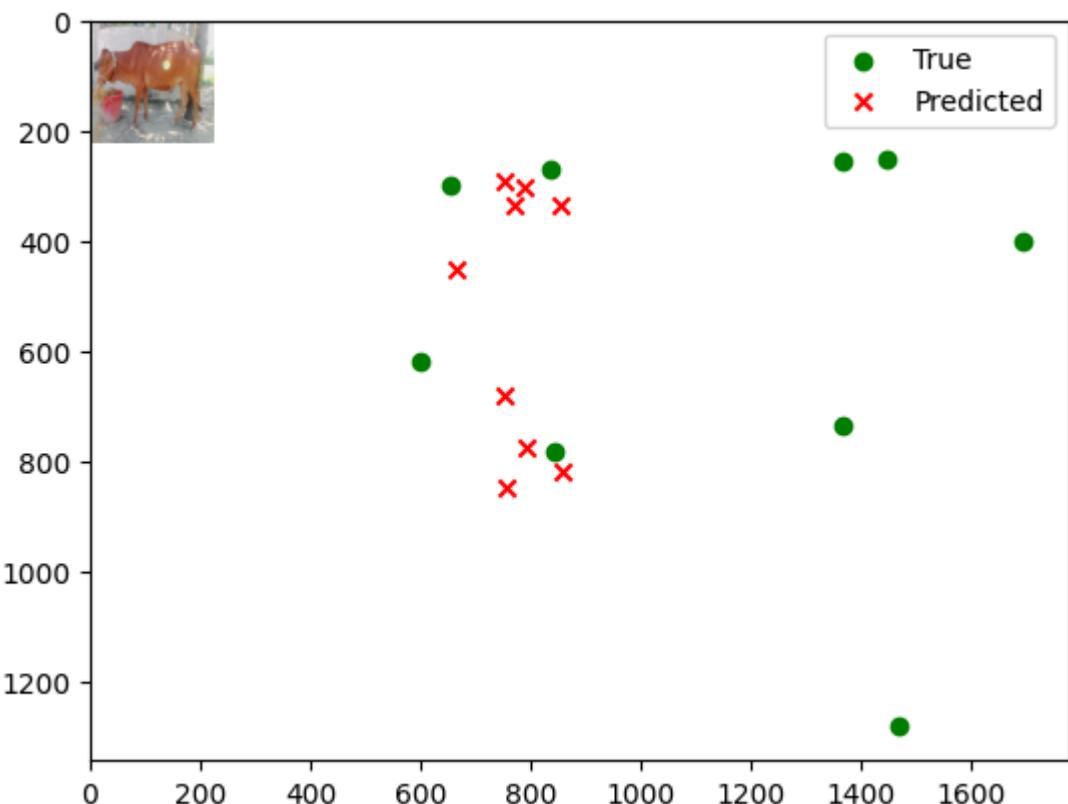


Image number: 213

True keypoints: [1252. 296. 156. 327. 1261. 679. 1032. 288. 1022. 841. 54
1. 200.

548. 765. 366. 208. 399. 1256.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[761.75757 328.47012]

[656.6011 446.2893]

[744.2966 673.05566]

[843.6417 330.88324]

[844.6996 809.1119]

[777.0745 297.22925]

[780.2005 763.38525]

[740.42645 284.87802]

[745.03186 834.7977]]

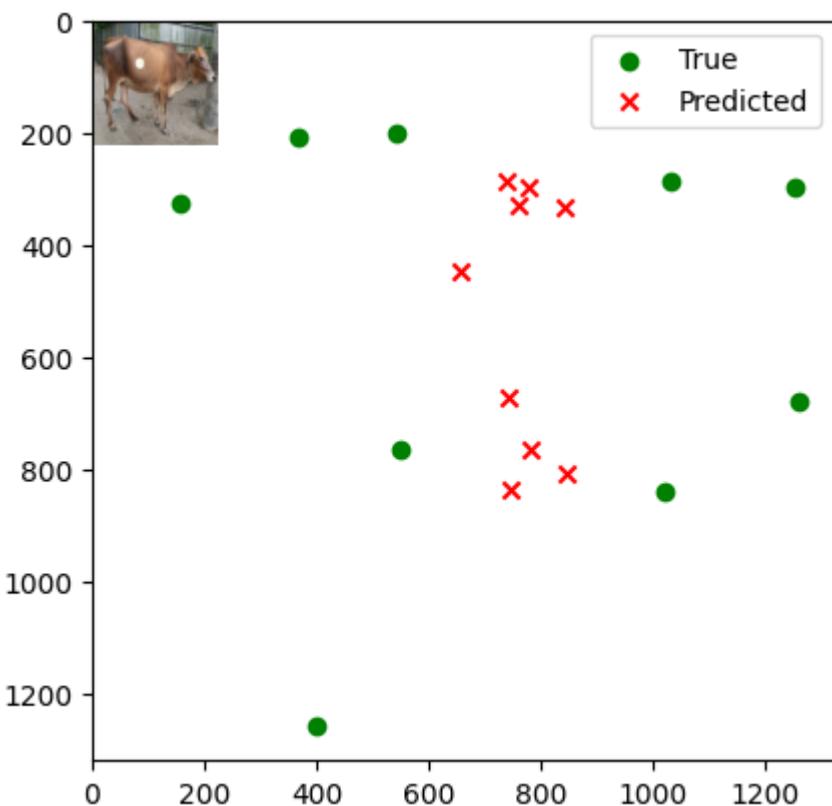


Image number: 214

True keypoints: [775. 317. 1724. 366. 821. 607. 966. 295. 992. 751. 139
5. 252.

1408. 686. 1495. 232. 1492. 1249.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[765.5159 329.78375]

[659.3347 448.3155]

[747.96484 676.3475]

[847.48566 332.18716]

[848.5481 812.9145]

[780.52576 298.14343]

[783.5955 767.0291]

[743.5567 285.68552]

[748.2687 838.6198]]

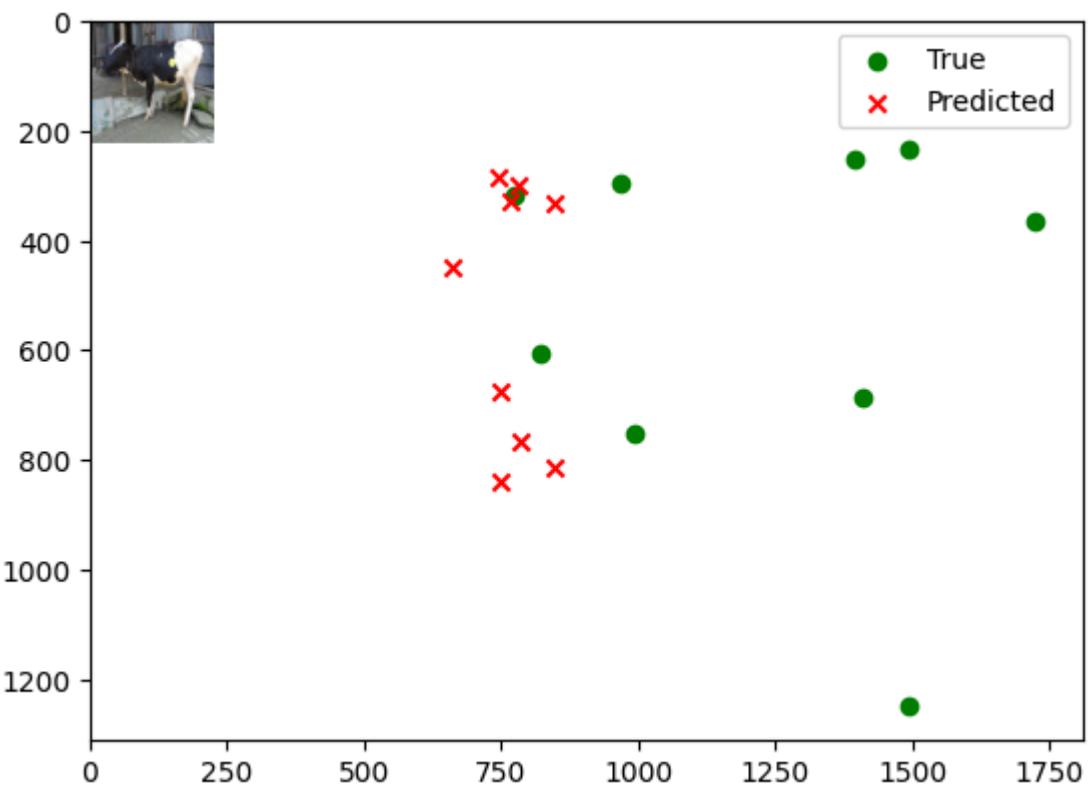


Image number: 215

True keypoints: [1175. 365. 236. 414. 1214. 708. 995. 374. 981. 827. 561. 297.

558. 758. 448. 288. 454. 1288.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[828.717 361.45087]

[717.761 487.43384]

[809.25323 732.7056]

[920.55945 363.89636]

[921.65753 881.87134]

[848.83105 329.38287]

[852.27075 831.93555]

[809.3551 316.65652]

[813.97974 910.86694]]

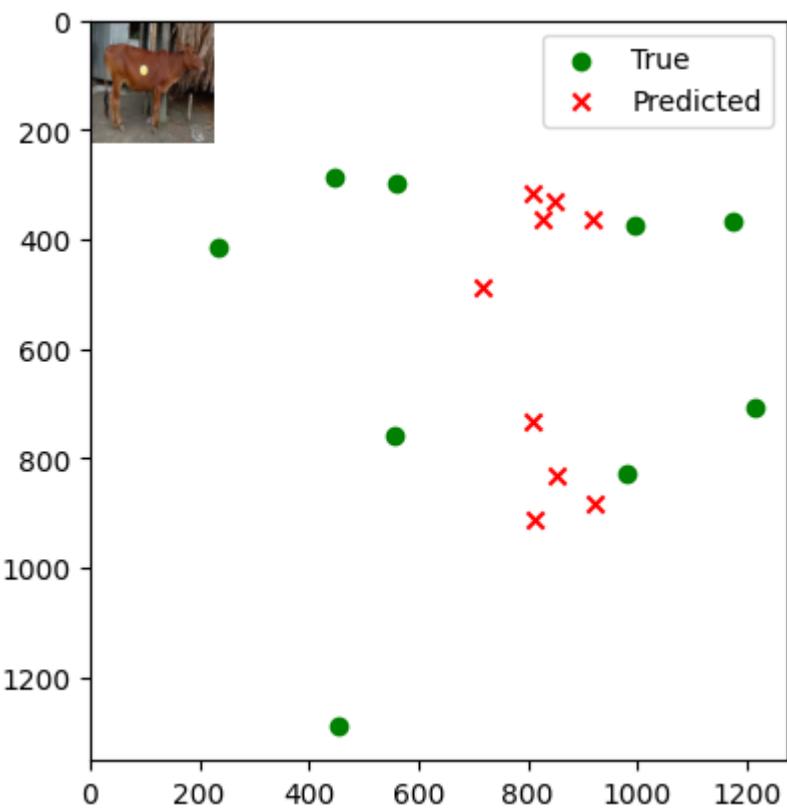


Image number: 216

True keypoints: [1208. 276. 255. 383. 1306. 659. 1030. 314. 1021. 809. 59. 4. 240.

575. 732. 510. 213. 523. 1224.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[798.74365 346.49054]

[689.8541 468.92776]

[780.23785 706.07587]

[885.85535 348.89563]

[886.84296 849.08057]

[816.2339 314.4665]

[819.5477 801.2195]

[777.9177 301.89923]

[782.6226 876.51855]]

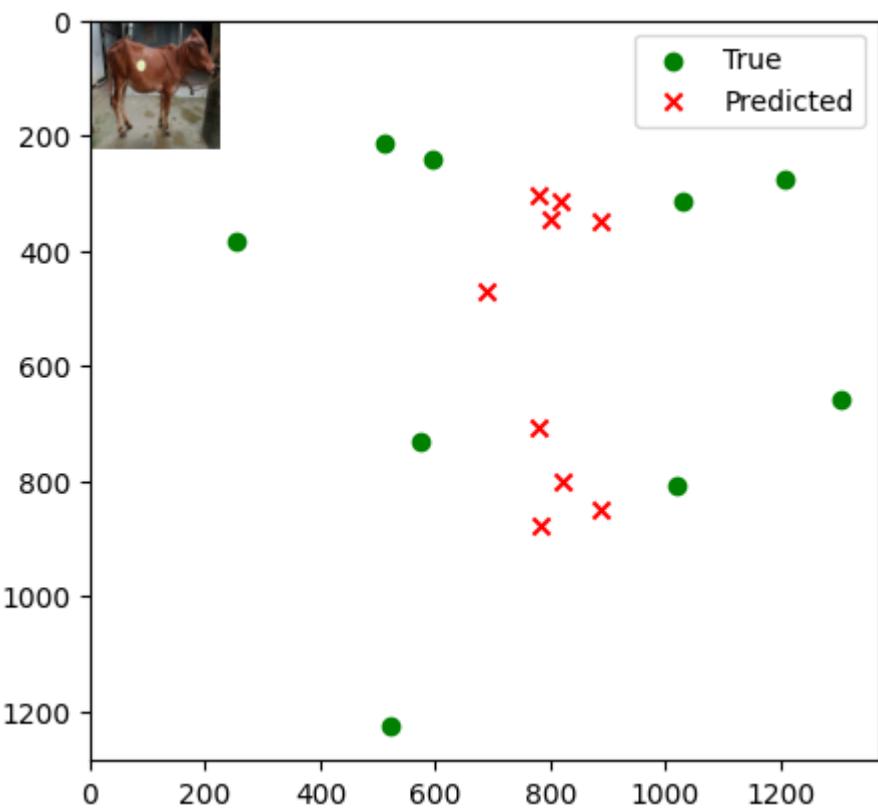


Image number: 217

True keypoints: [810. 388. 1739. 503. 783. 684. 991. 381. 994. 831. 143
2. 367.

1416. 788. 1512. 358. 1486. 1288.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[830.1787 362.72006]

[719.585 488.60495]

[810.6167 734.06335]

[922.61835 365.1526]

[923.7366 883.71356]

[850.8812 330.96213]

[854.37115 833.5835]

[811.44714 318.30084]

[815.9663 912.899]]

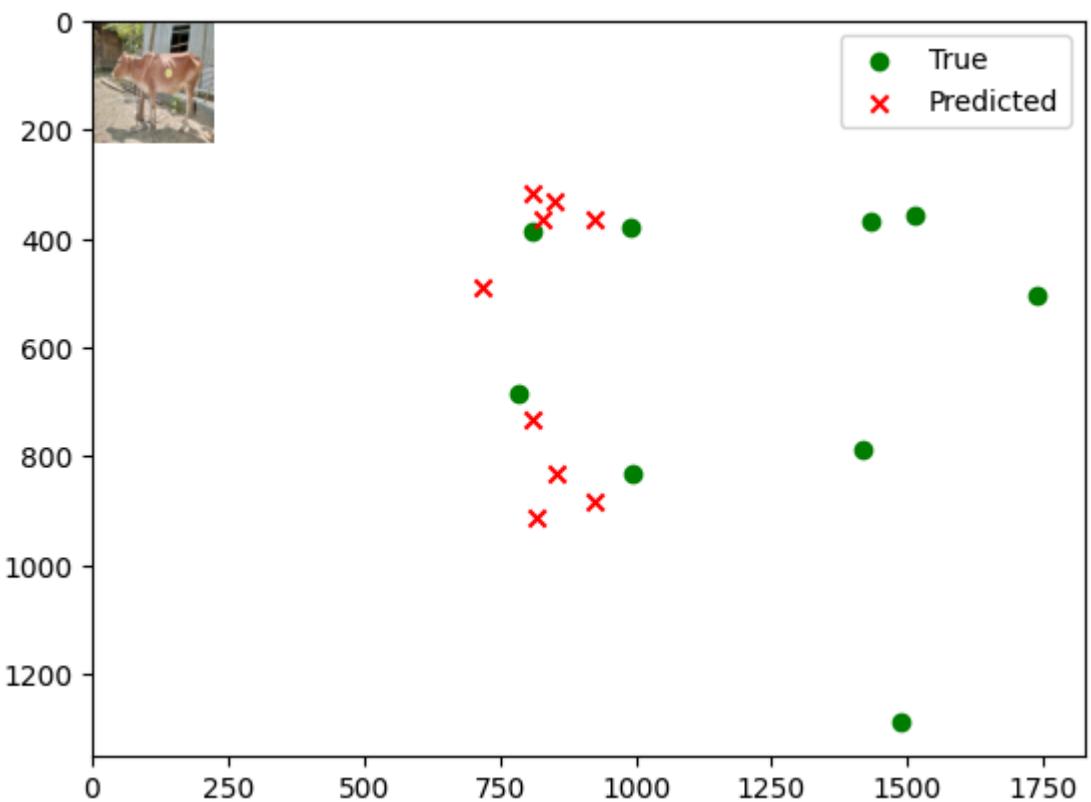


Image number: 218

True keypoints: [715. 403. 1520. 448. 684. 691. 869. 375. 903. 792. 126
8. 331.

1286. 713. 1346. 320. 1386. 1211.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[824.93463 359.949]

[714.7313 485.28903]

[805.52747 729.35266]

[916.50507 362.41077]

[917.63086 877.9524]

[845.1796 328.217]

[848.6346 828.15216]

[805.9639 315.59113]

[810.48975 906.8405]]

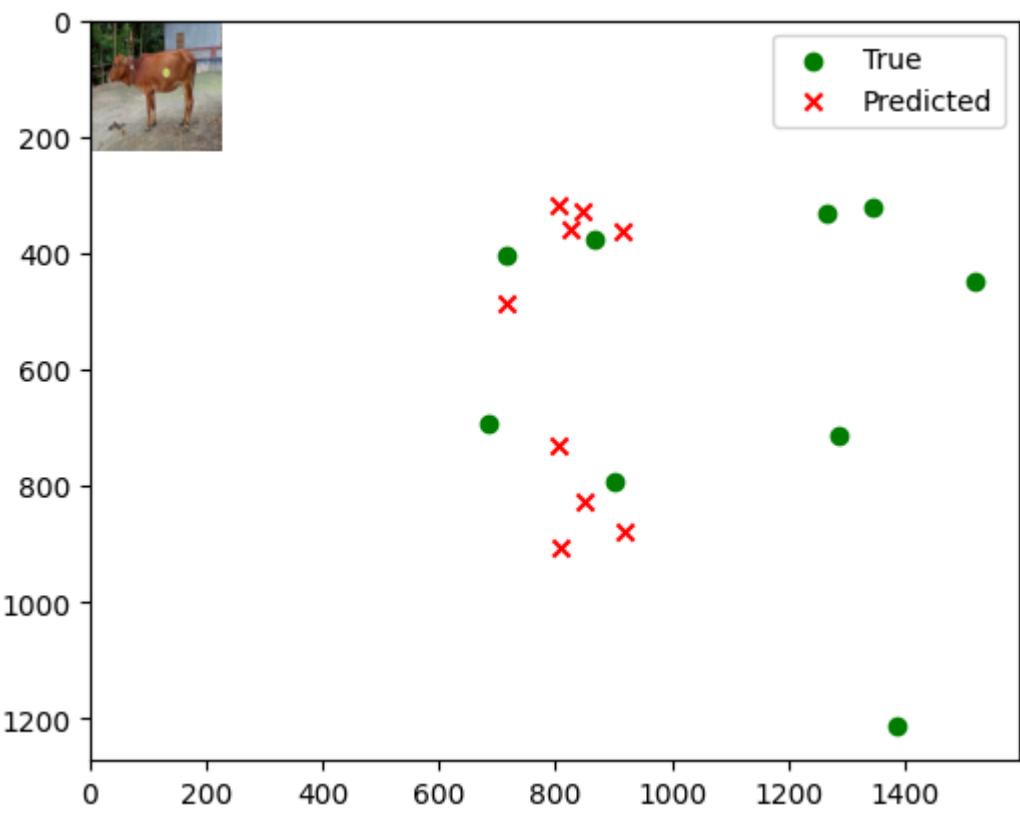


Image number: 219

True keypoints: [759. 292. 1656. 486. 687. 637. 910. 316. 924. 797. 138
4. 310.

1364. 765. 1465. 311. 1430. 1185.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[806.67896 350.85608]

[697.6986 474.01483]

[787.82874 713.0995]

[895.36365 353.27774]

[896.51953 858.0178]

[825.3928 319.19522]

[828.74756 809.41187]

[786.85364 306.64142]

[791.40466 885.9354]]

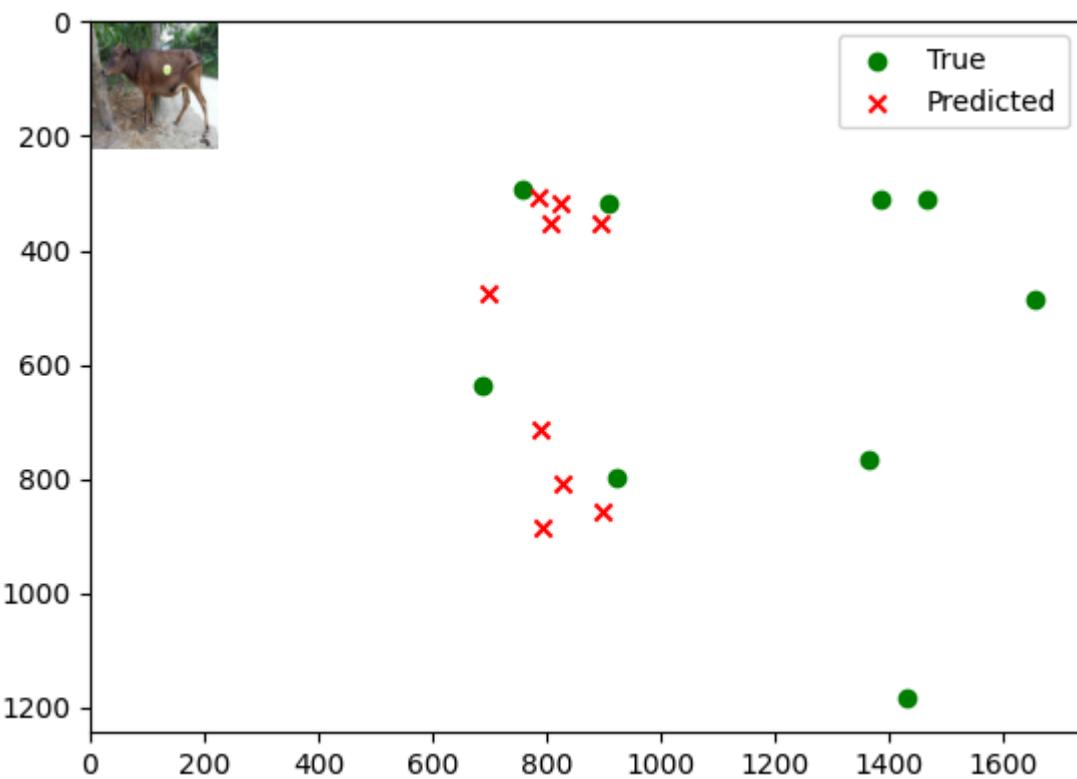


Image number: 220

True keypoints: [654. 188. 1729. 302. 641. 508. 878. 177. 897. 695. 138
0. 158.

1386. 612. 1487. 145. 1485. 1136.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[747.9887 322.20145]

[643.96674 438.07568]

[730.8893 660.89856]

[827.9822 324.52292]

[829.09534 794.2708]

[762.46344 291.2248]

[765.56714 749.4043]

[726.3634 279.00558]

[730.8982 819.291]]

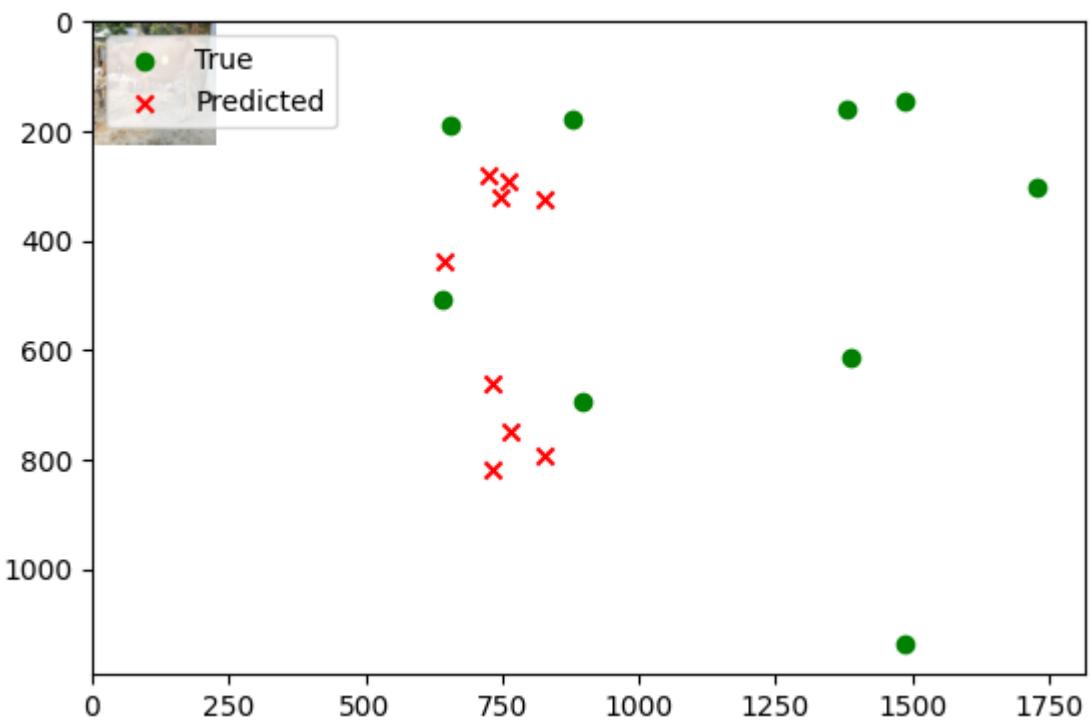


Image number: 221

True keypoints: [1290. 300. 73. 239. 1207. 598. 994. 235. 979. 778. 46
1. 103.
470. 675. 321. 88. 360. 1193.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[732.3602 314.05914]

[628.1737 428.2516]

[715.8737 647.1517]

[809.2647 316.2752]

[810.23157 776.77954]

[744.5052 282.54245]

[747.4913 733.2296]

[708.796 270.32492]

[713.50305 800.7618]]

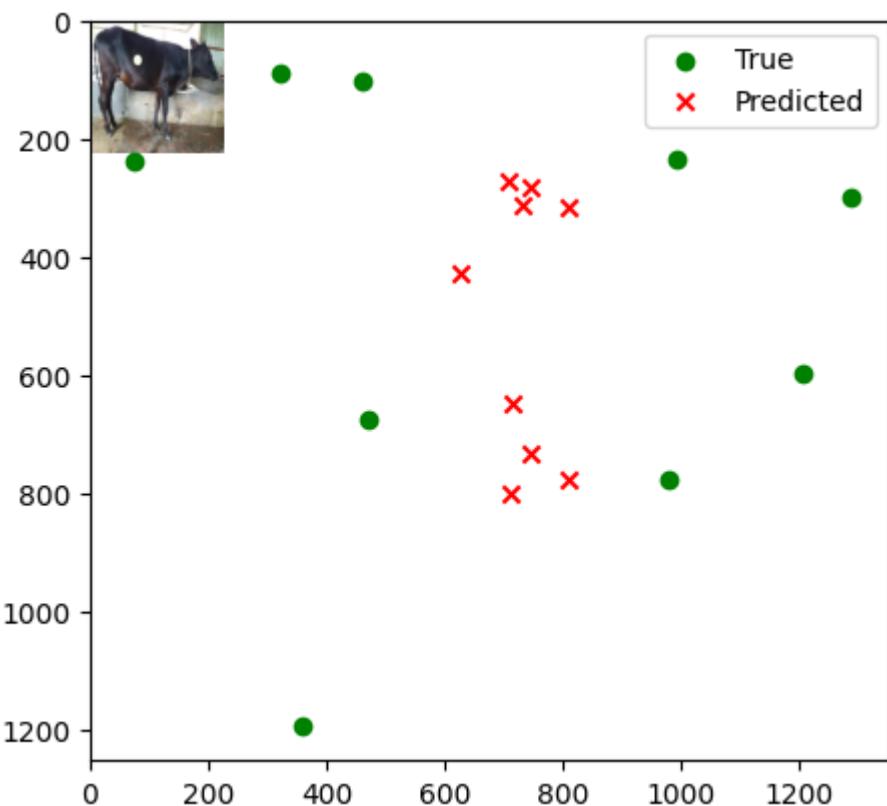


Image number: 222

True keypoints: [1188. 202. 146. 270. 1189. 541. 937. 196. 940. 673. 47
1. 160.

480. 636. 387. 139. 400. 1055.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[619.95776 264.6353]

[516.2418 362.40988]

[607.59784 550.40906]

[678.574 264.84558]

[679.5994 653.6579]

[619.3174 232.3614]

[622.37335 619.56696]

[586.9611 220.84639]

[591.26904 670.89856]]

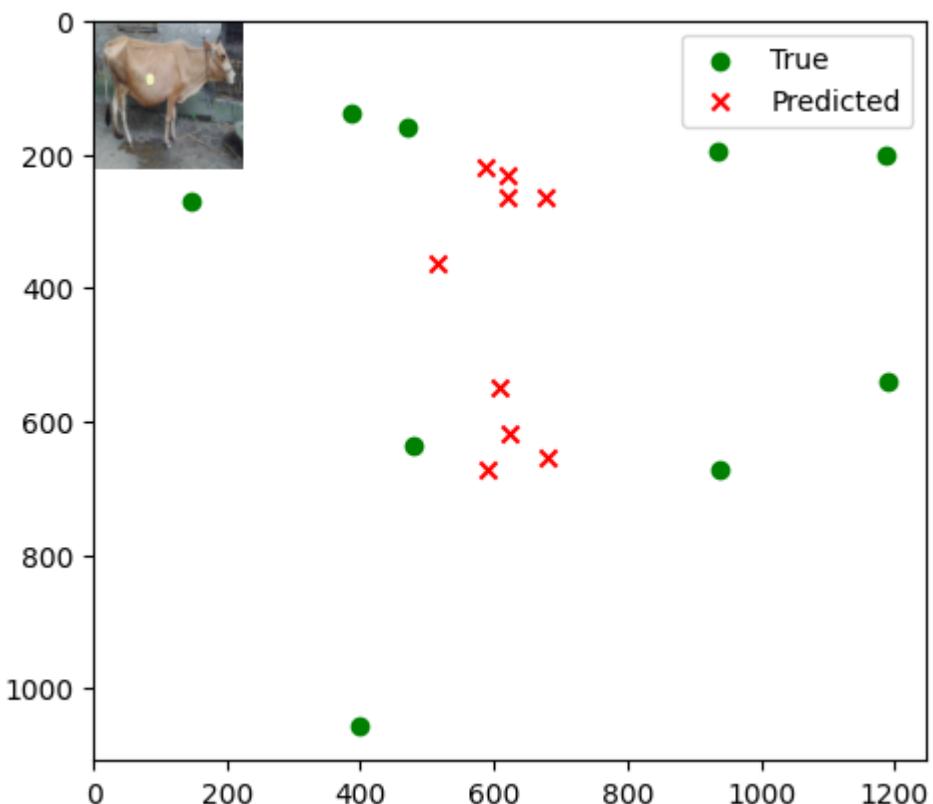


Image number: 223

True keypoints: [1270. 369. 519. 433. 1289. 643. 1114. 379. 1095. 792. 75. 4. 346.

753. 734. 690. 333. 704. 1211.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[759.92487 330.32758]

[648.50385 446.72052]

[743.0851 673.37976]

[839.97986 331.60812]

[841.079 806.18665]

[771.47504 297.3808]

[774.86945 762.083]

[733.87024 284.9514]

[738.3586 830.79645]]

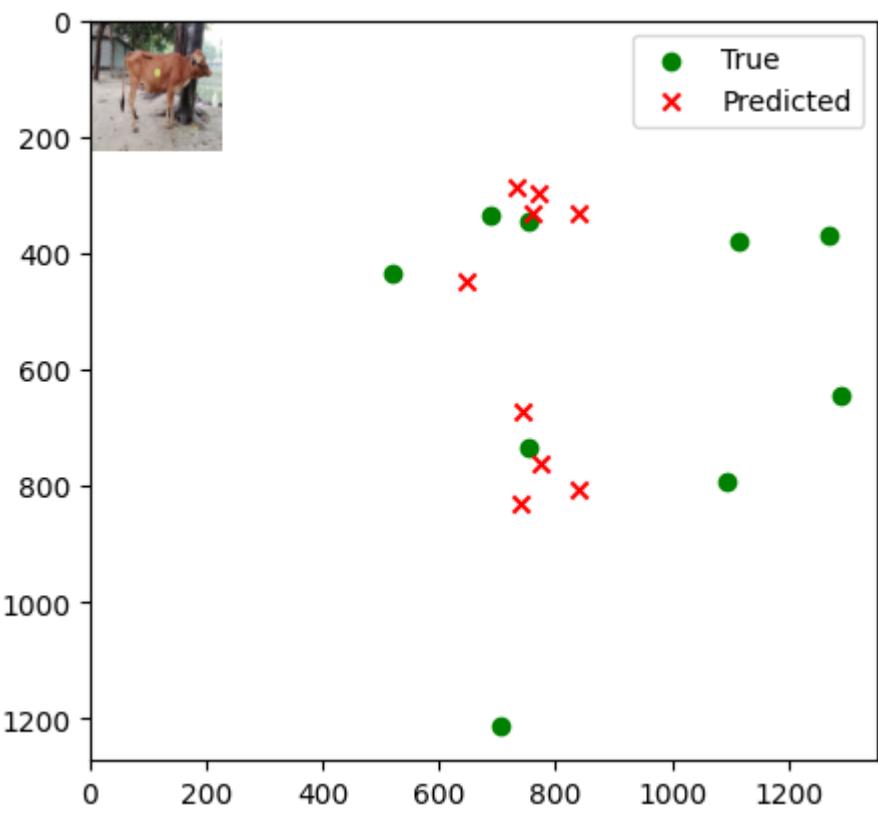


Image number: 224

True keypoints: [795. 279. 1714. 357. 752. 625. 994. 292. 1019. 781. 144
3. 229.

1435. 700. 1507. 223. 1486. 1176.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[769.8856 333.08157]

[664.2899 451.5841]

[752.11884 680.3957]

[853.3144 335.44318]

[854.416 818.1633]

[786.16705 301.98108]

[789.38055 771.87085]

[749.20636 289.67386]

[753.72375 844.3241]]

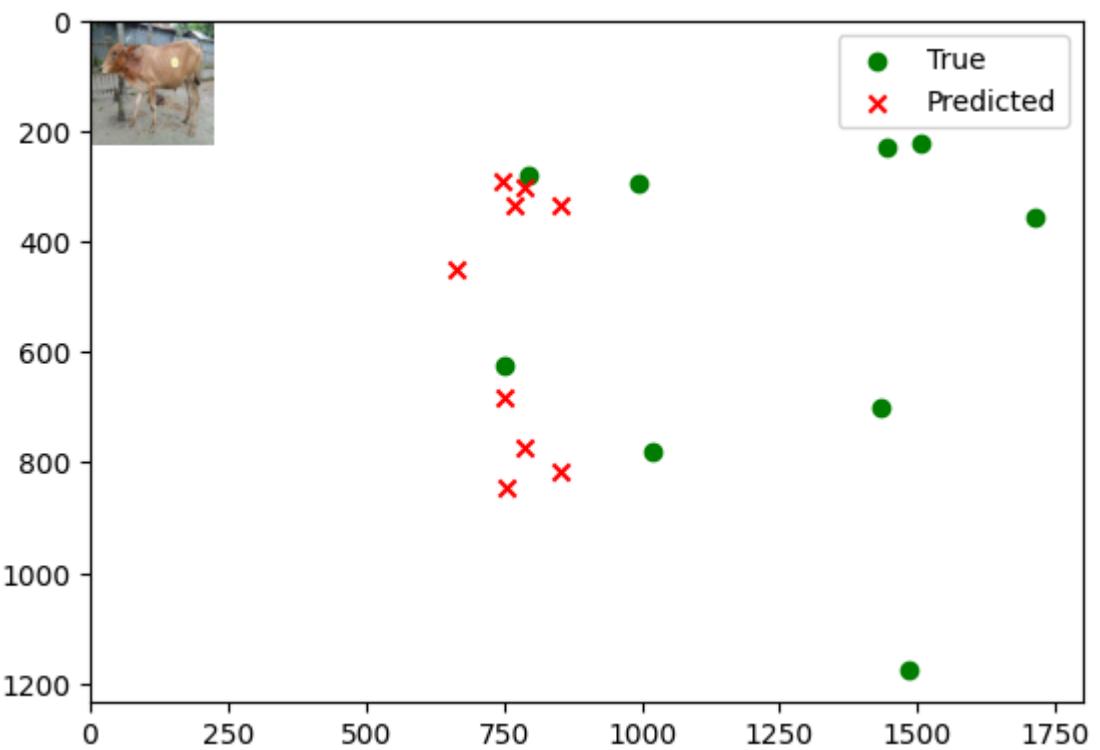


Image number: 225

True keypoints: [670. 144. 1708. 323. 666. 526. 880. 166. 893. 685. 134
0. 126.

1353. 607. 1456. 118. 1472. 1175.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[21.88293 309.45068]

[619.78503 422.08017]

[705.5951 637.72217]

[797.9007 311.7136]

[798.9685 765.845]

[734.2787 278.64453]

[737.2543 722.7016]

[699.197 266.55746]

[703.75726 789.5173]]

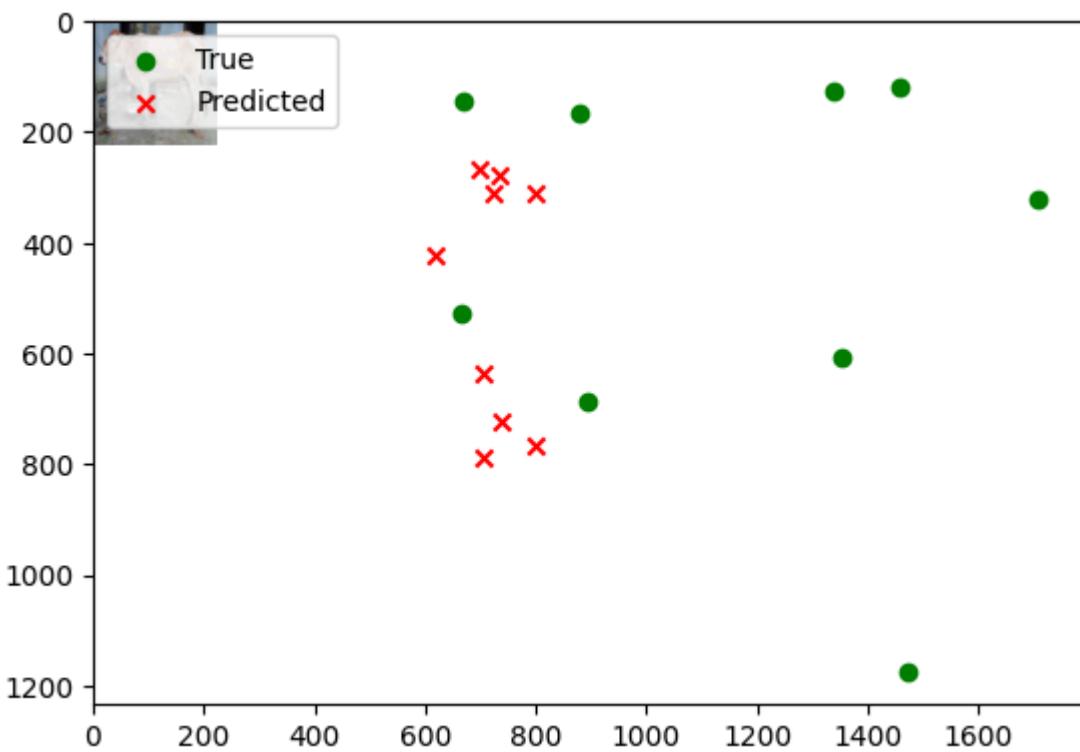


Image number: 226

True keypoints: [777. 256. 1746. 355. 742. 599. 976. 270. 1002. 758. 143
4. 225.
1442. 673. 1513. 209. 1524. 1276.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[752.9276 324.5096]
[648.4559 441.04602]
[735.67834 665.26044]
[833.6044 326.86356]
[834.7389 799.5998]
[767.7245 293.46805]
[770.84454 754.42615]
[731.41223 281.22046]
[735.9705 824.8452]]

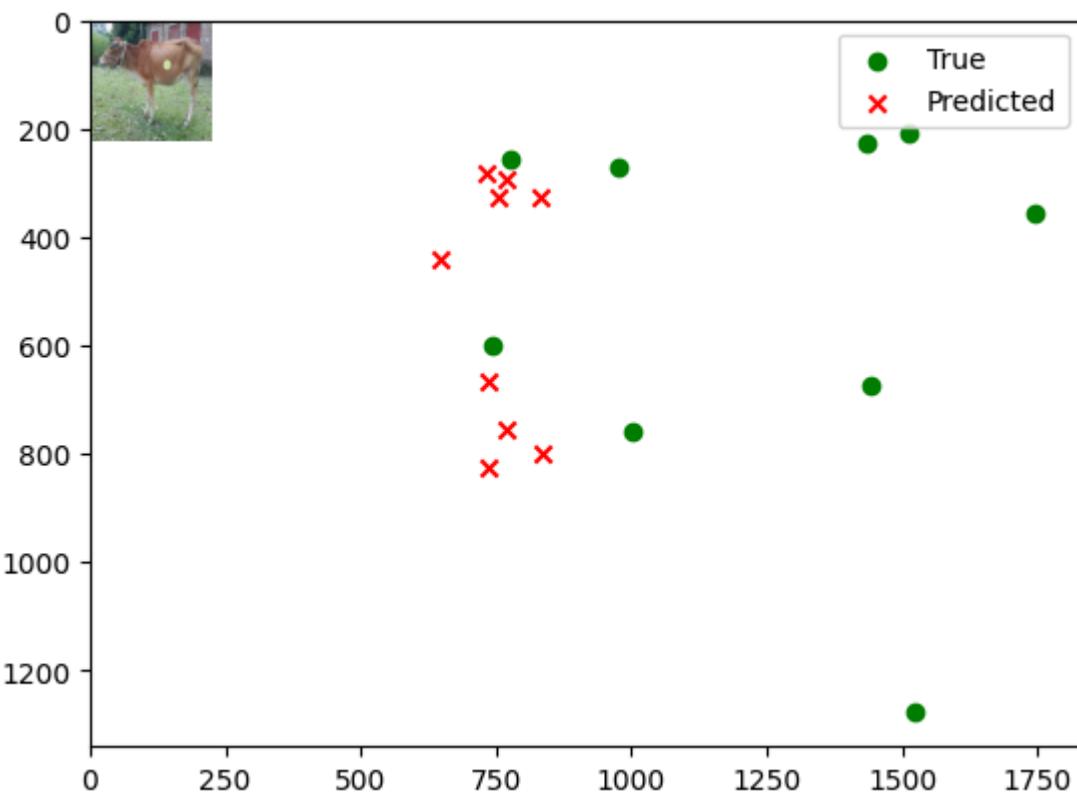


Image number: 227

True keypoints: [795. 267. 1756. 423. 724. 605. 985. 295. 979. 787. 144
4. 282.

1434. 732. 1547. 271. 1531. 1203.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[776.558 335.4845]

[669.4469 455.2181]

[758.6852 686.23645]

[860.2739 337.88785]

[861.3984 825.004]

[792.46674 303.81113]

[795.6262 778.4011]

[755.06604 291.338]

[759.7183 851.2708]]

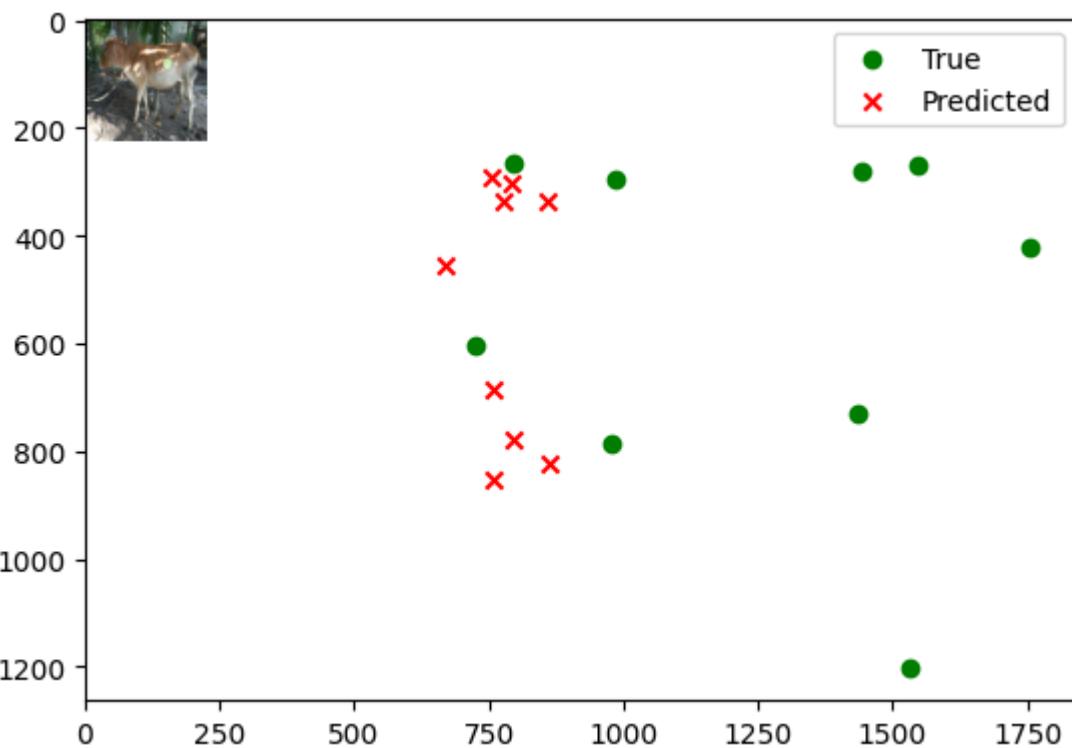


Image number: 228

True keypoints: [1158. 244. 230. 448. 1204. 627. 968. 286. 968. 793. 53
4. 280.

529. 724. 446. 268. 461. 1251.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[753.8634 325.34872]

[645.7652 441.88995]

[736.9616 666.91254]

[833.4055 327.2319]

[834.4609 799.8401]

[766.35297 293.06265]

[769.5145 755.3728]

[729.40063 280.62192]

[734.0622 824.51917]]

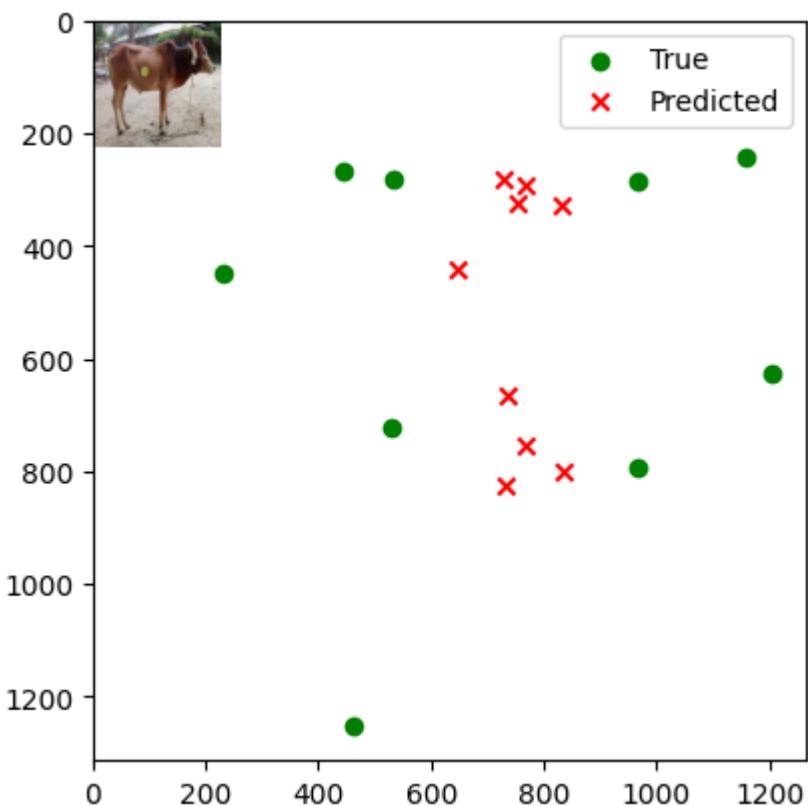


Image number: 229

True keypoints: [812. 248. 1646. 349. 734. 564. 995. 269. 1006. 720. 137
7. 225.

1378. 642. 1455. 214. 1465. 1163.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[809.0259 352.88766]

[700.8696 475.91284]

[790.0339 715.27734]

[898.766 355.29596]

[899.938 861.0136]

[828.7969 321.76306]

[832.24225 812.1142]

[790.3491 309.32147]

[794.7588 889.24615]]

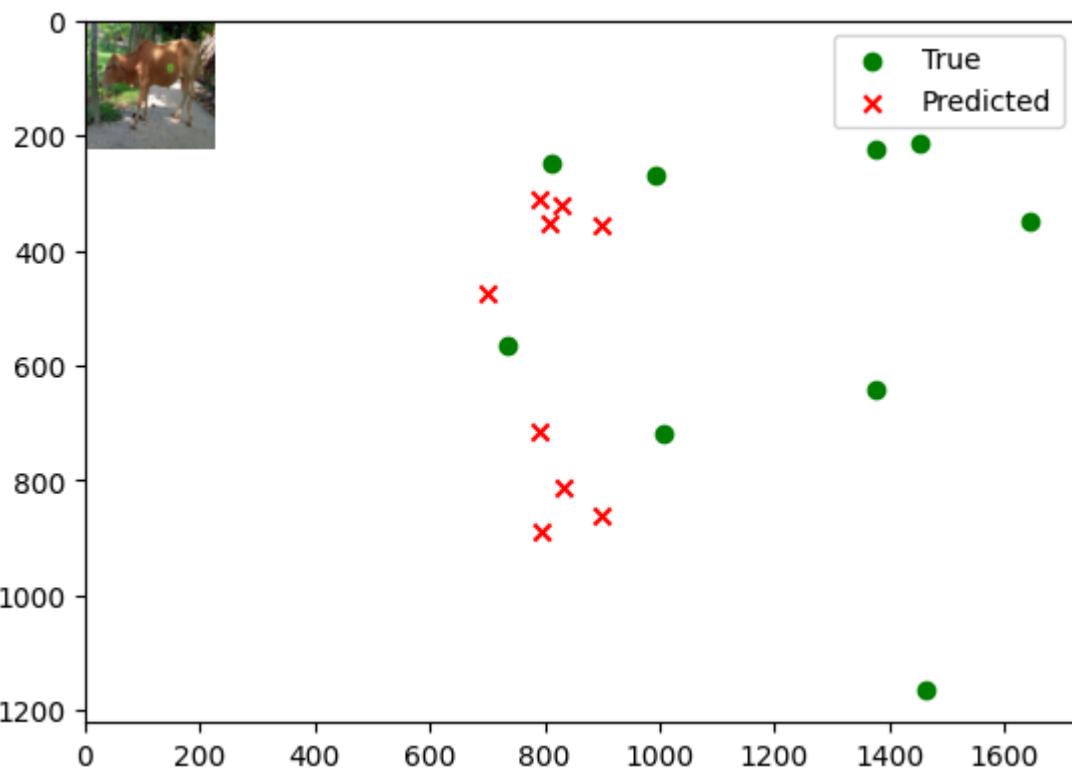


Image number: 230

True keypoints: [1240. 273. 186. 383. 1237. 665. 1020. 314. 1033. 775. 54. 0. 260.

560. 752. 407. 234. 447. 1284.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[769.0859 332.71646]

[662.66455 451.11823]

[751.46173 679.8877]

[852.0386 334.97305]

[853.10516 817.0653]

[784.6458 301.2756]

[787.8716 771.0407]

[747.5714 288.91647]

[752.1452 843.0204]]

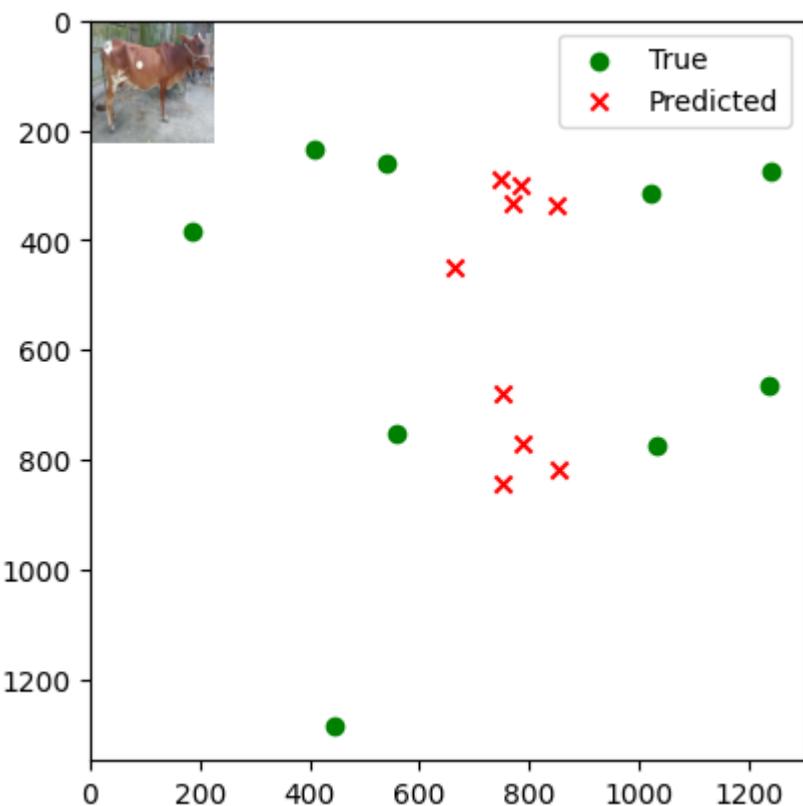


Image number: 231

True keypoints: [730. 346. 1655. 417. 728. 690. 924. 346. 962. 821. 136
8. 301.

1387. 733. 1455. 297. 1477. 1286.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[804.80005 350.3425]

[696.357 473.08356]

[785.96826 711.4785]

[893.5078 352.74878]

[894.68134 856.1598]

[823.7411 318.93924]

[827.13306 807.62225]

[785.3546 306.45245]

[789.8392 884.0709]]

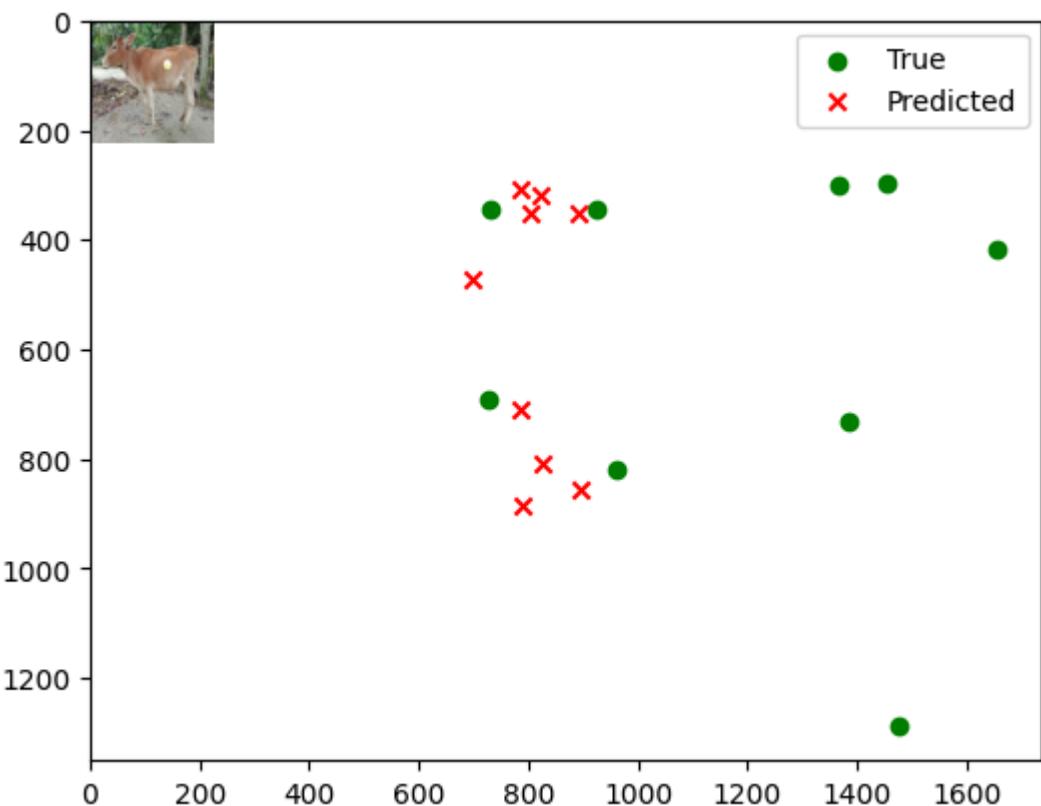


Image number: 232

True keypoints: [745. 343. 1634. 413. 721. 634. 950. 325. 969. 775. 134
3. 287.

1348. 711. 1440. 274. 1463. 1281.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[799.6865 348.06866]

[691.5233 470.0431]

[781.0053 706.9833]

[887.6566 350.40268]

[888.8732 850.63806]

[818.26044 316.7132]

[821.633 802.44696]

[780.0444 304.28394]

[784.4983 878.2937]]

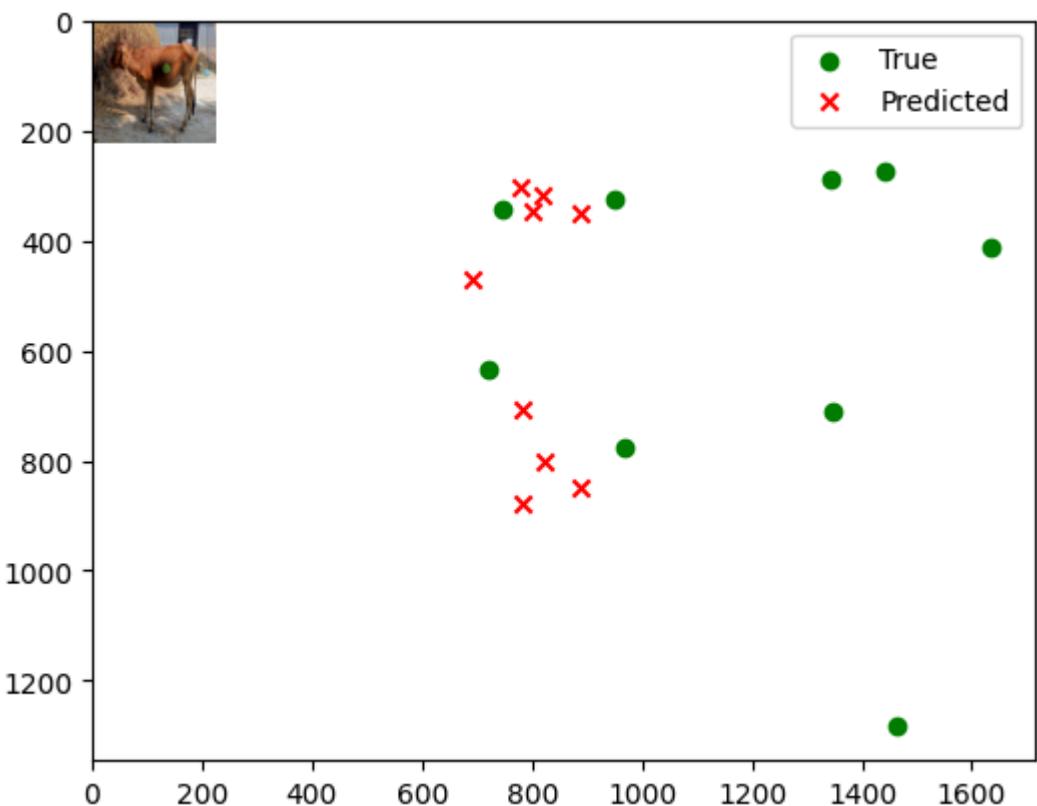


Image number: 233

True keypoints: [778. 318. 1806. 473. 745. 728. 1004. 355. 999. 844. 1424. 316.]

1430. 783. 1520. 293. 1522. 1217.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[800.5499 347.20544]]

[691.9352 469.94315]

[781.9444 707.5395]

[888.04584 349.7039]

[889.08484 851.1587]

[818.4774 315.38907]

[821.76196 802.971]

[780.17896 302.794]

[784.83405 878.7047]

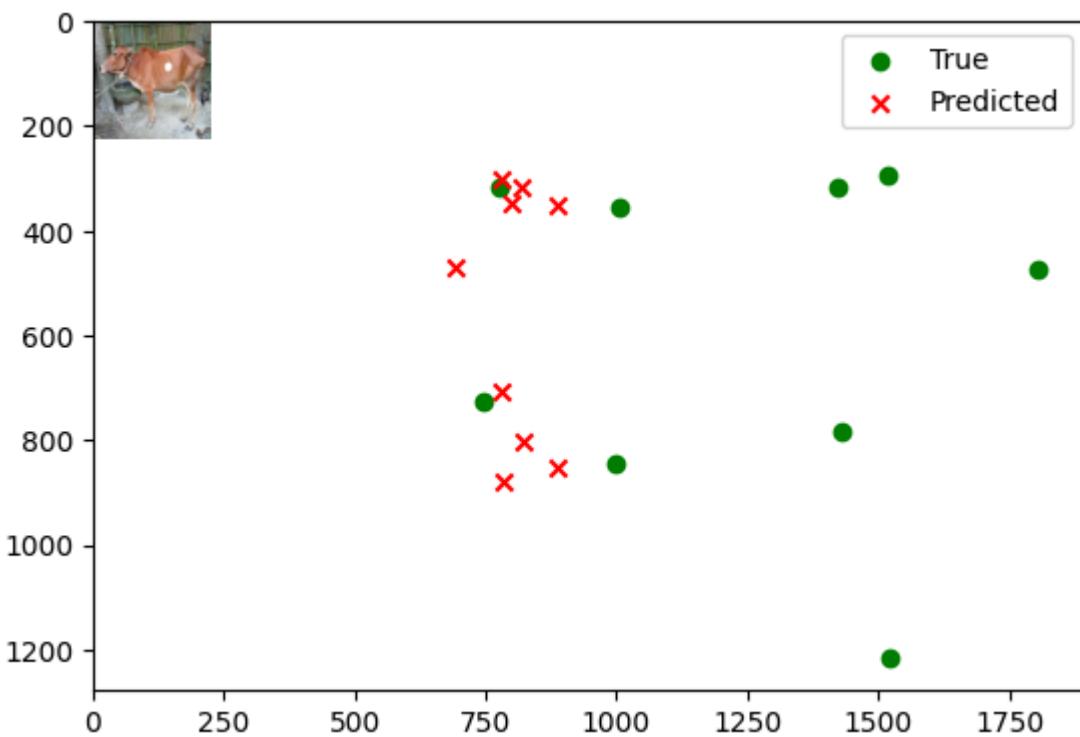


Image number: 234

True keypoints: [1225. 361. 195. 444. 1217. 662. 1031. 339. 1031. 823. 53
0. 296.

538. 754. 405. 291. 431. 1239.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[821.08167 358.0874]

[711.2062 482.95087]

[801.798 725.9439]

[912.1122 360.54352]

[913.24835 873.78314]

[841.0763 326.39072]

[844.5231 824.2452]

[801.99677 313.77478]

[806.531 902.50195]]

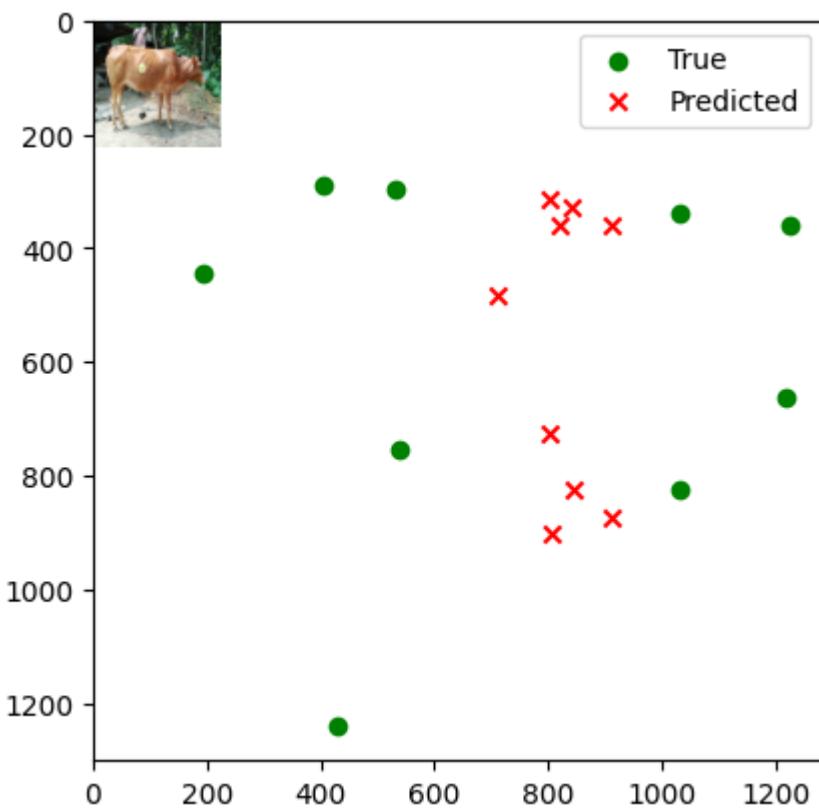


Image number: 235

True keypoints: [1226. 224. 182. 378. 1270. 579. 1022. 253. 1021. 770. 54
1. 214.

547. 750. 468. 210. 486. 1252.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[736.44556 316.356]

[632.8019 430.88086]

[719.7354 650.67816]

[814.38696 318.62125]

[815.43506 781.5004]

[749.58624 285.20392]

[752.6053 737.5331]

[713.8559 272.99805]

[718.4783 805.8578]]

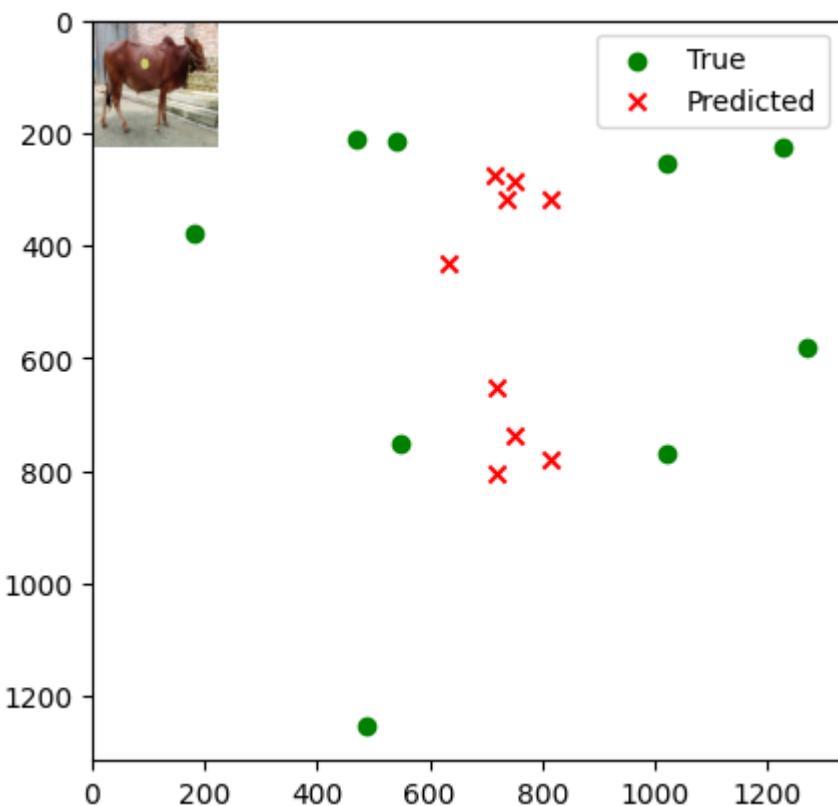


Image number: 236

True keypoints: [1254. 283. 195. 449. 1270. 620. 1032. 287. 1038. 786. 51
1. 255.

529. 768. 425. 251. 475. 1199.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[776.9005 336.71863]

[669.73 456.0017]

[759.04474 686.88684]

[861.04517 338.94952]

[862.1585 825.5941]

[793.0504 305.2187]

[796.3223 779.07635]

[755.6504 292.82336]

[760.16785 851.95667]]

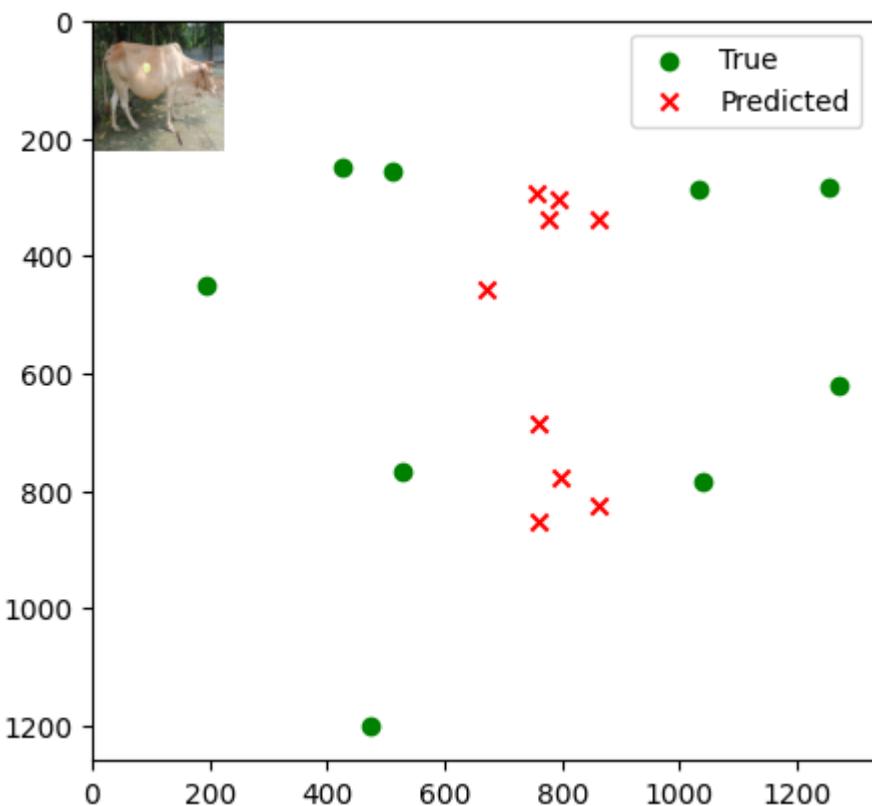


Image number: 237

True keypoints: [733. 259. 1668. 267. 680. 573. 922. 250. 959. 728. 1376. 163.]

1400. 595. 1456. 156. 1511. 1201.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[743.13586 320.8956]]

[640.4527 435.64288]

[726.0957 656.7221]

[823.18823 323.19293]

[824.37305 789.4675]

[758.2261 290.57413]

[761.41736 744.807]

[701.4138 744.807]
 [722.50055 278.55252]

[722.50033 278.53232]
[726.84753 814.4915]

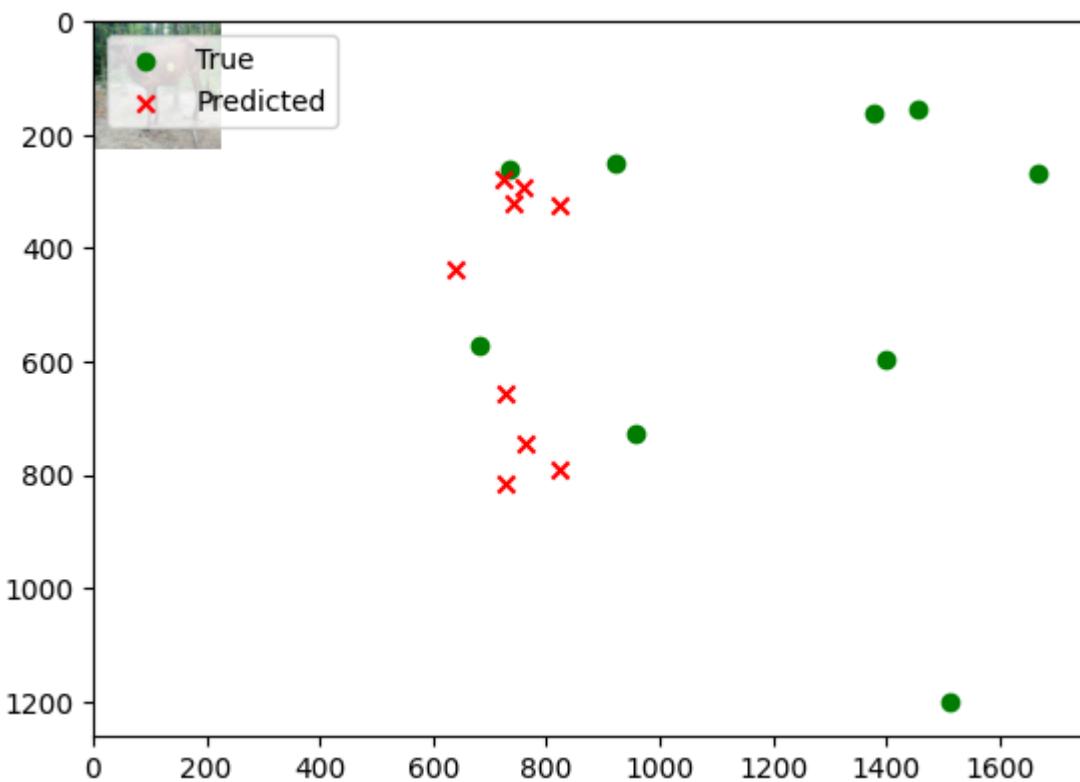


Image number: 238

True keypoints: [750. 302. 1689. 427. 721. 616. 920. 302. 944. 764. 138 5. 289.

1383. 718. 1479. 271. 1486. 1170.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[792.7014 344.54492]

[684.9304 465.6999]

[774.22156 700.75726]

[879.5171 346.88763]

[880.7466 842.9783]

[810.6229 313.20032]

[813.94977 795.2616]

[772.6706 300.8143]

[777.1378 870.25525]]

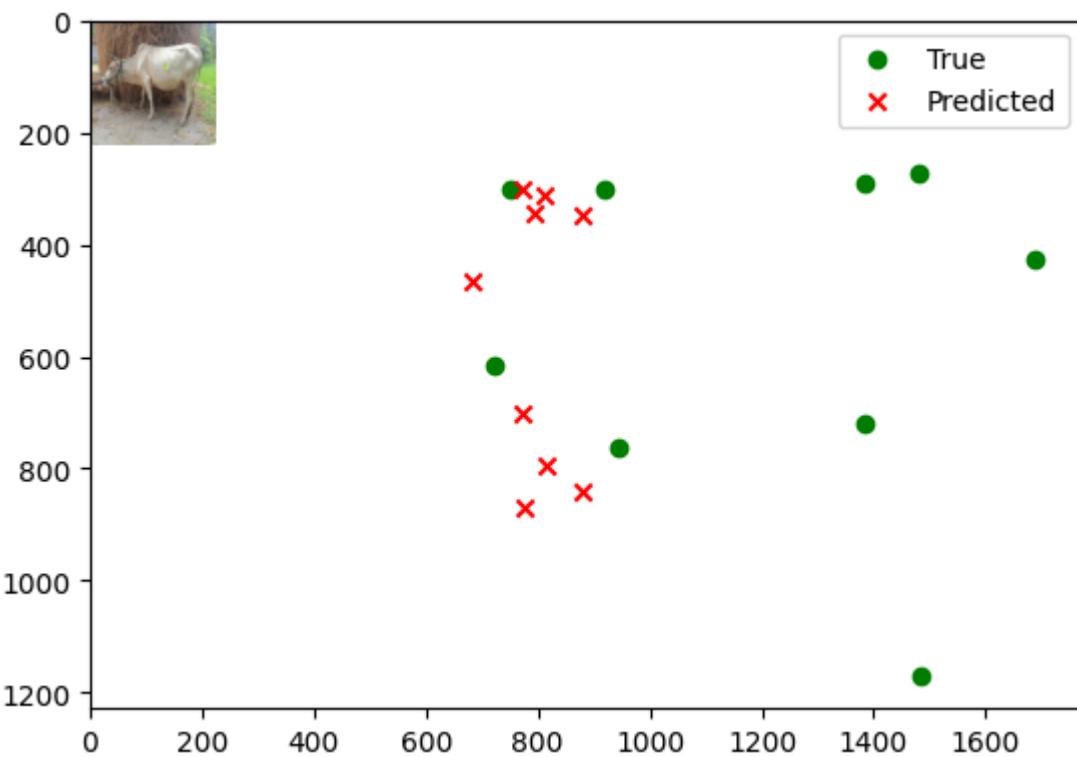


Image number: 239

True keypoints: [682. 387. 1657. 529. 678. 726. 914. 394. 932. 860. 133
4. 389.
1338. 817. 1436. 377. 1427. 1320.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[867.13086 381.18756]
[753.5265 511.4923]
[846.48456 767.06537]
[965.2682 383.64548]
[966.3772 923.937]
[890.6472 349.0888]
[894.34155 871.5705]
[849.70337 336.28033]
[854.1896 955.0454]]

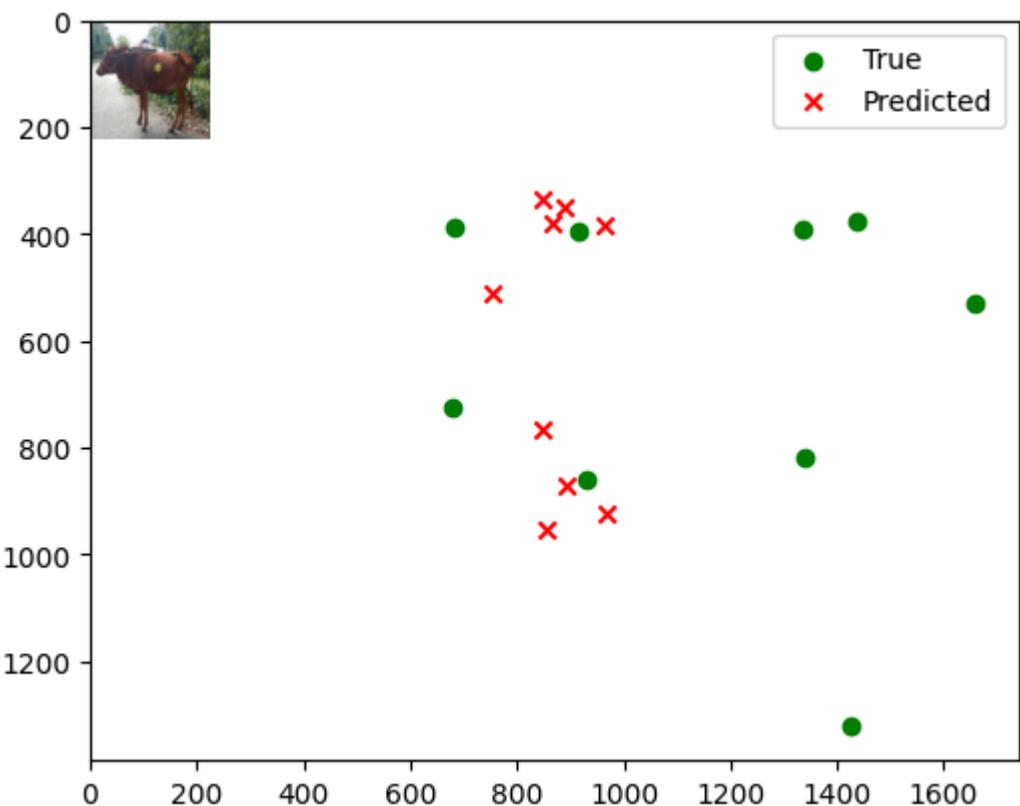


Image number: 240

True keypoints: [661. 296. 1646. 415. 689. 636. 902. 295. 926. 778. 133
1. 261.

1344. 715. 1435. 257. 1466. 1182.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[809.67065 352.97162]

[701.18414 476.19983]

[790.68713 715.8466]

[899.3358 355.38428]

[900.5138 861.5961]

[829.2537 321.67545]

[832.6885 812.7066]

[790.73724 309.19385]

[795.1776 889.8255]]

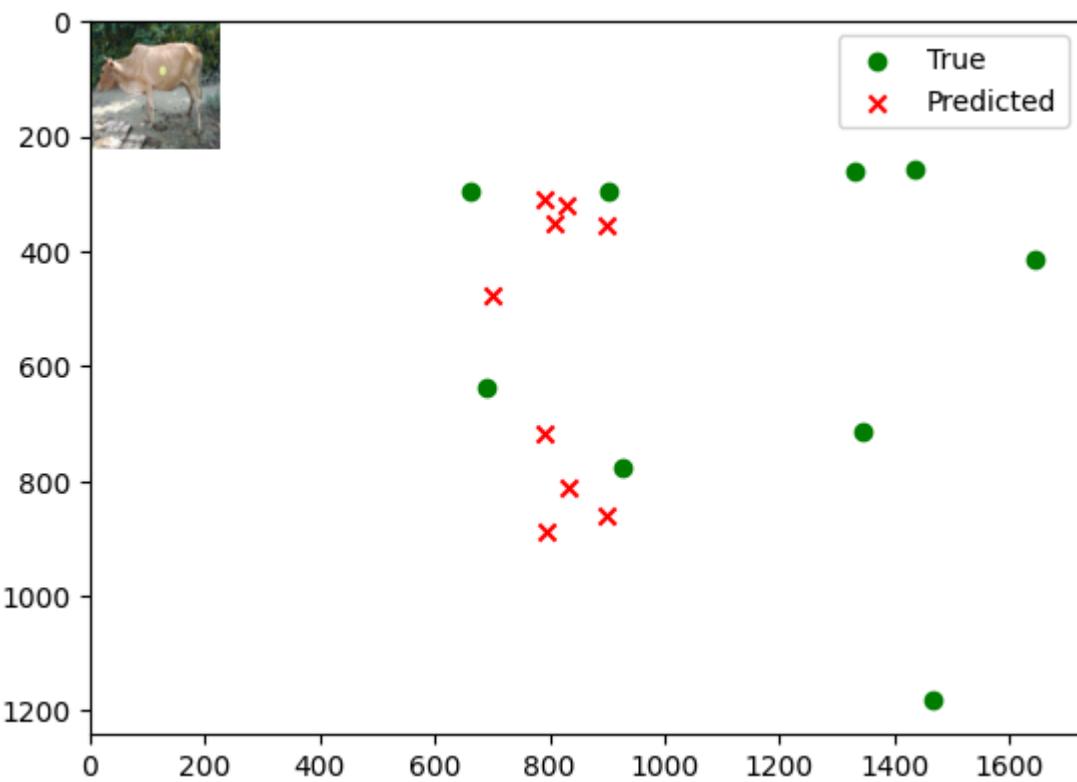


Image number: 241

True keypoints: [804. 355. 1682. 436. 781. 655. 978. 334. 992. 748. 1372. 298. 1385. 694. 1475. 283. 1498. 1224.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[785.9382 339.7224]
[677.8127 460.7634]
[767.7888 694.509]
[870.7997 342.13385]
[871.89496 835.0588]
[802.254 307.7494]
[805.3863 787.8517]
[764.4093 295.1539]
[769.16437 861.6924]]

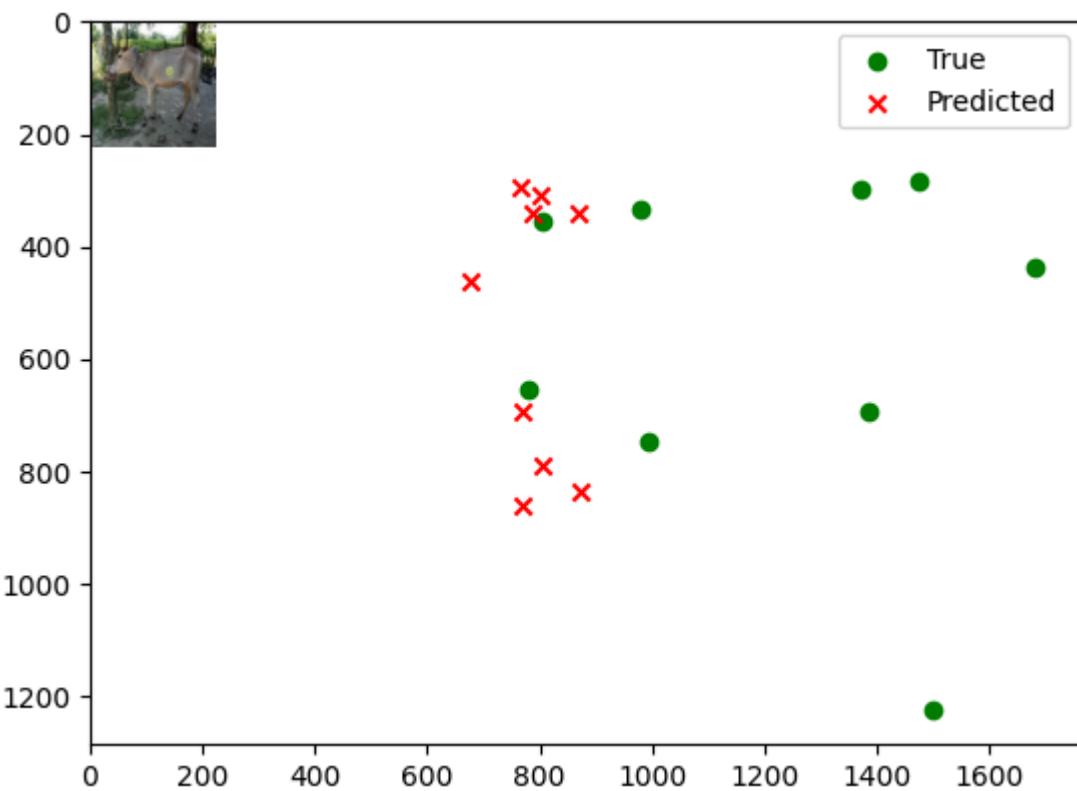


Image number: 242

True keypoints: [694. 287. 1742. 400. 697. 640. 912. 284. 925. 782. 138
0. 234.

1386. 723. 1475. 232. 1486. 1182.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[749.815 322.84695]

[645.02966 439.0395]

[732.67377 662.50604]

[829.7445 325.15842]

[830.9131 796.06616]

[764.0173 291.6375]

[767.07623 751.16846]

[727.72534 279.37137]

[732.3033 821.06055]]

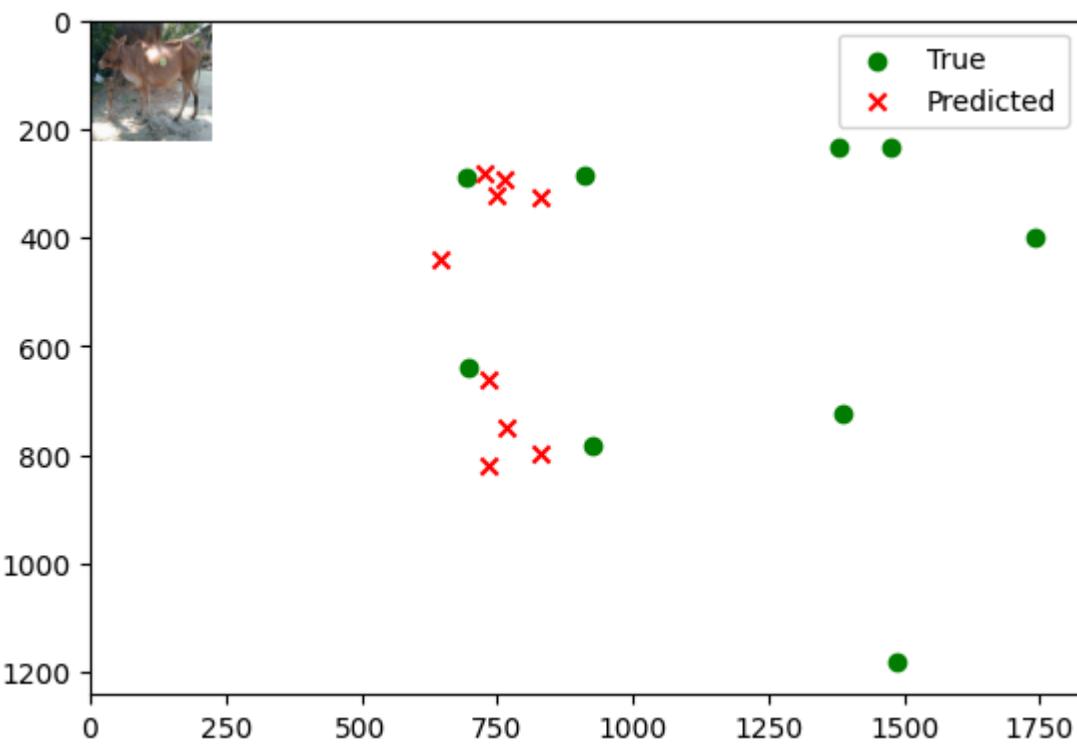


Image number: 243

True keypoints: [701. 258. 1659. 391. 626. 594. 891. 304. 875. 760. 128
8. 293.

1280. 763. 1405. 277. 1385. 1238.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[802.67865 349.811]

[694.77014 472.05893]

[783.89417 709.6789]

[891.41394 352.1848]

[892.6273 854.06354]

[821.8673 318.6632]

[825.3011 805.645]

[783.6361 306.25677]

[788.01874 881.98157]]

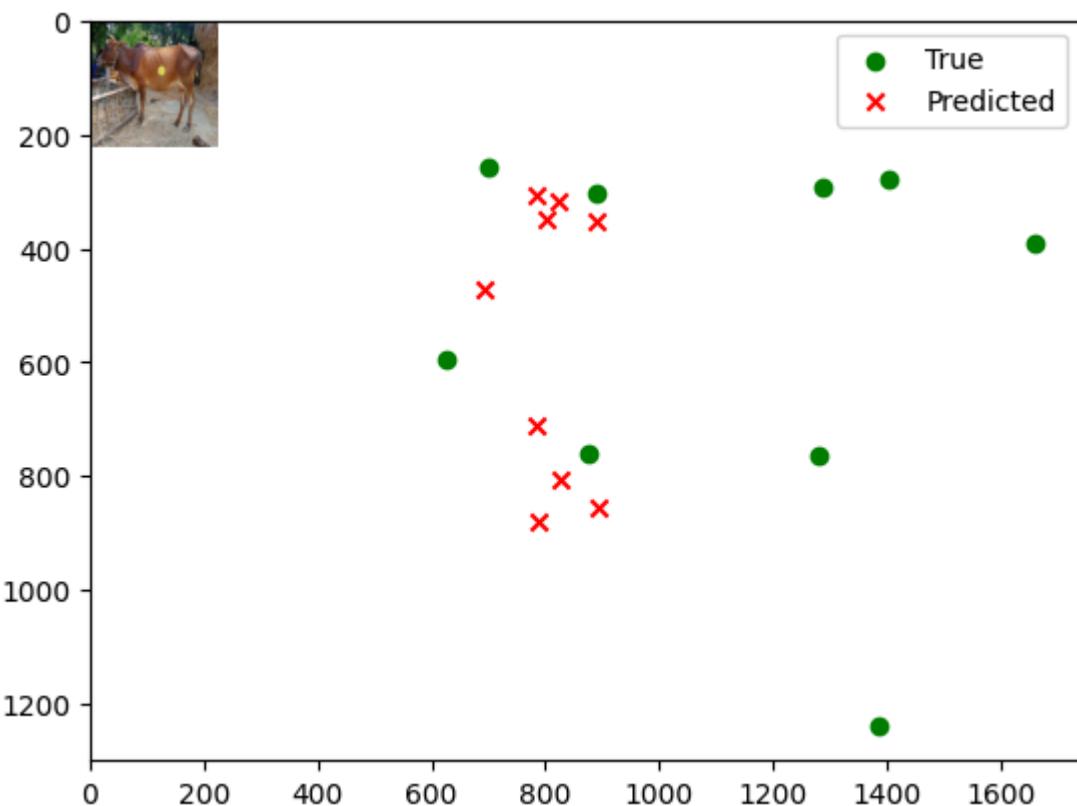


Image number: 244

True keypoints: [633. 320. 1666. 432. 642. 645. 840. 307. 866. 801. 133
4. 274.

1350. 710. 1441. 261. 1452. 1278.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[784.836 340.11563]

[677.5076 460.58142]

[766.6467 693.6679]

[870.15765 342.4773]

[871.32367 834.2404]

[801.83704 308.64594]

[805.06104 787.0344]

[764.16437 296.19604]

[768.7295 861.0277]]

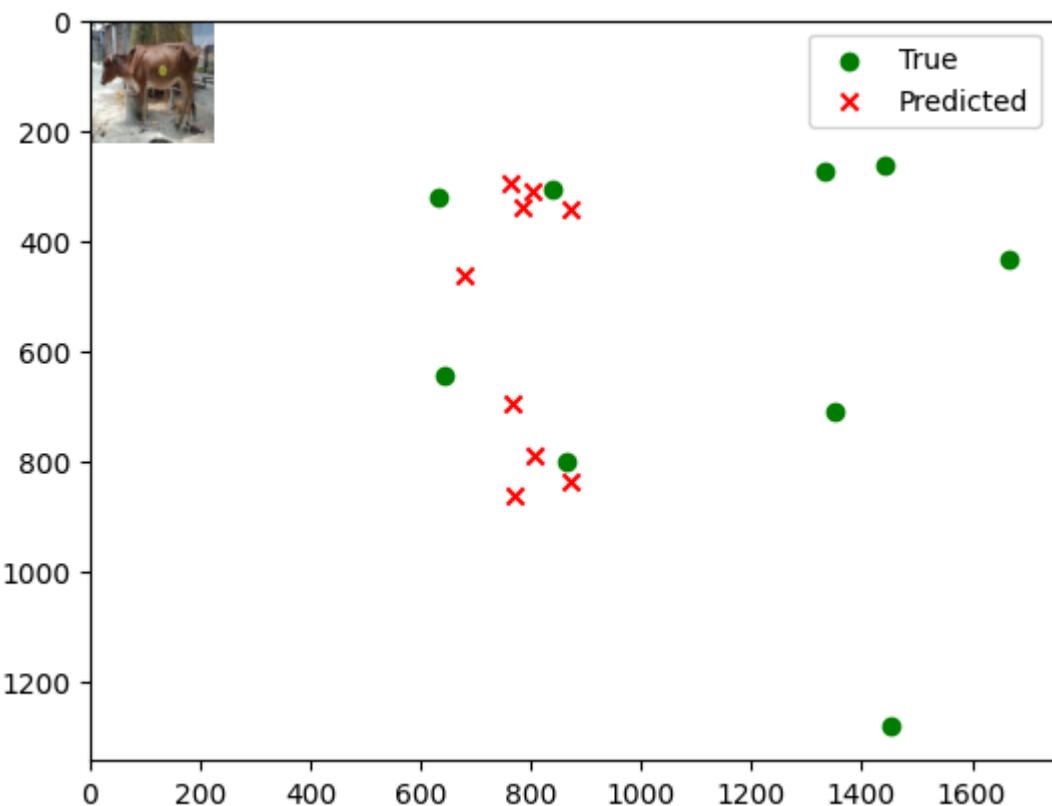


Image number: 245

True keypoints: [1265. 238. 309. 393. 1334. 595. 1066. 272. 1093. 767. 61. 5. 247.

624. 724. 511. 240. 534. 1288.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[686.4706 294.50864]

[580.9488 401.7569]

[671.85236 608.15076]

[755.55316 295.64404]

[756.63086 726.3457]

[692.56573 262.34628]

[695.6494 686.9419]

[657.98535 250.32965]

[662.46686 747.29755]]

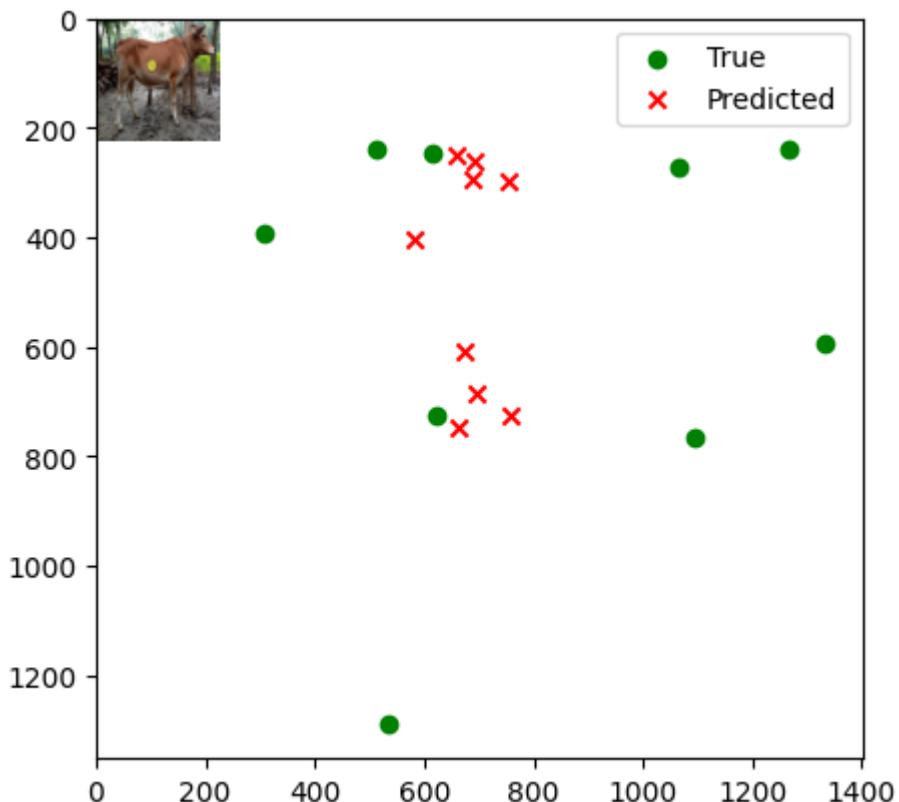


Image number: 246

True keypoints: [743. 306. 1703. 337. 728. 599. 948. 297. 975. 745. 1375. 237.]

1379. 661. 1468. 213. 1462. 1152.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[745.8914 321.26697]]

[641.95233 436.83975]

[728.8486 659.0746]

[825.589 323.58255]

[826.75024 792.0151]

[760.2297 290.3431]

[763.3171 747.29333]

[724.2068 278.15836]

[728.7249 816.9259]

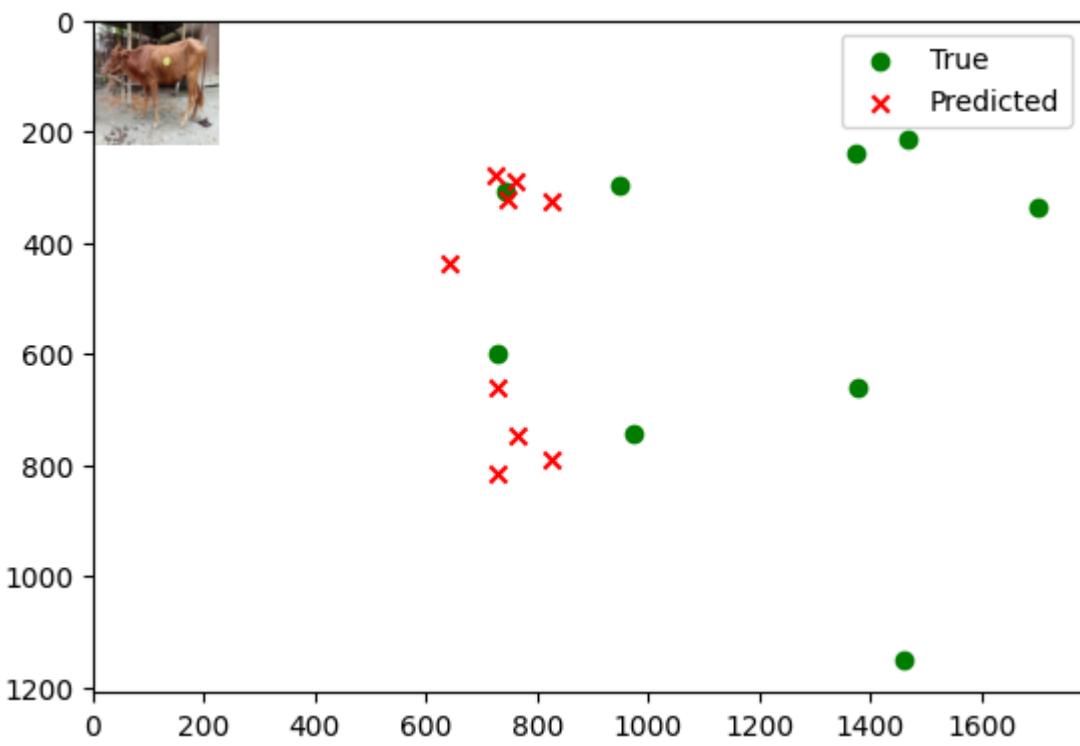


Image number: 247

True keypoints: [692. 284. 1720. 420. 701. 638. 897. 261. 934. 764. 139
6. 250.

1410. 707. 1502. 240. 1538. 1257.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[771.33496 332.47766]

[664.1374 451.78256]

[753.6548 681.5485]

[853.89215 334.86652]

[854.9564 819.0779]

[786.3672 300.55072]

[789.4412 772.9038]

[749.0724 288.02948]

[753.82715 844.9709]]

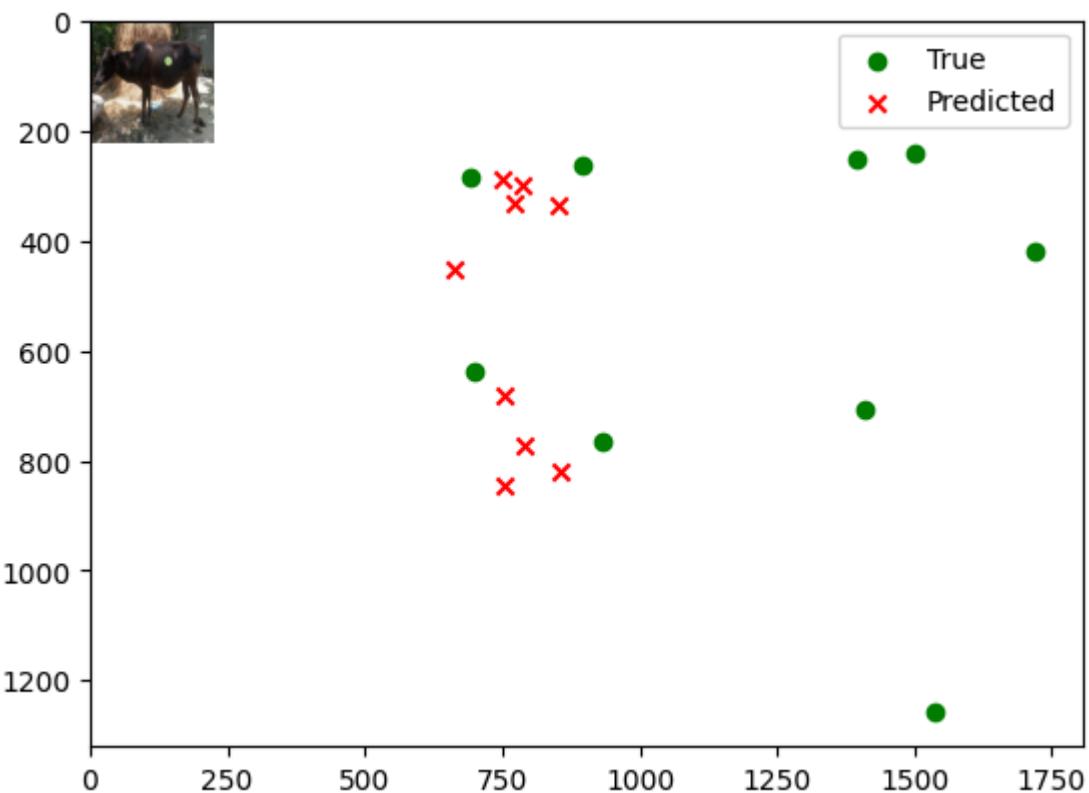


Image number: 248

True keypoints: [1098. 459. 239. 482. 1086. 773. 884. 442. 879. 870. 50
1. 373.

504. 795. 445. 367. 462. 1230.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[805.01874 351.75635]

[694.7016 473.8825]

[786.3469 712.3921]

[893.4403 353.75494]

[894.62805 856.2241]

[822.996 319.93045]

[826.49365 808.1603]

[784.32654 307.45688]

[788.75024 883.92896]]

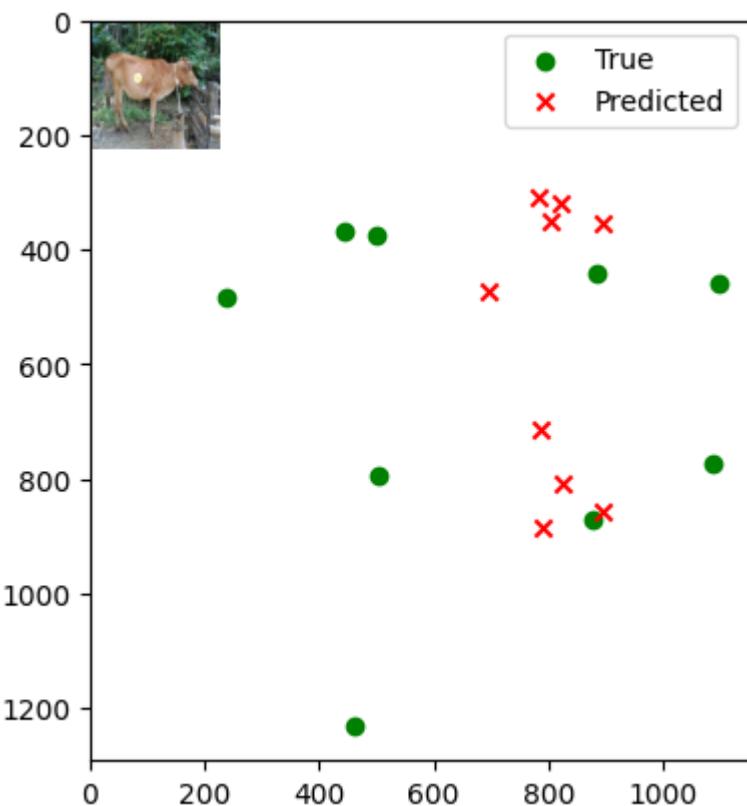


Image number: 249

True keypoints: [684. 401. 1560. 514. 686. 697. 880. 413. 899. 874. 1293. 386.

1311. 789. 1355. 381. 1386. 1296.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[819.0208 357.11774]

[709.10345 481.67493]

[799.7982 724.1276]

[909.6256 359.53094]

[910.7461 871.4908]

[838.69116 325.35498]

[842.10895 822.11255]

[799.6741 312.73605]

[804.2358 900.0663]]

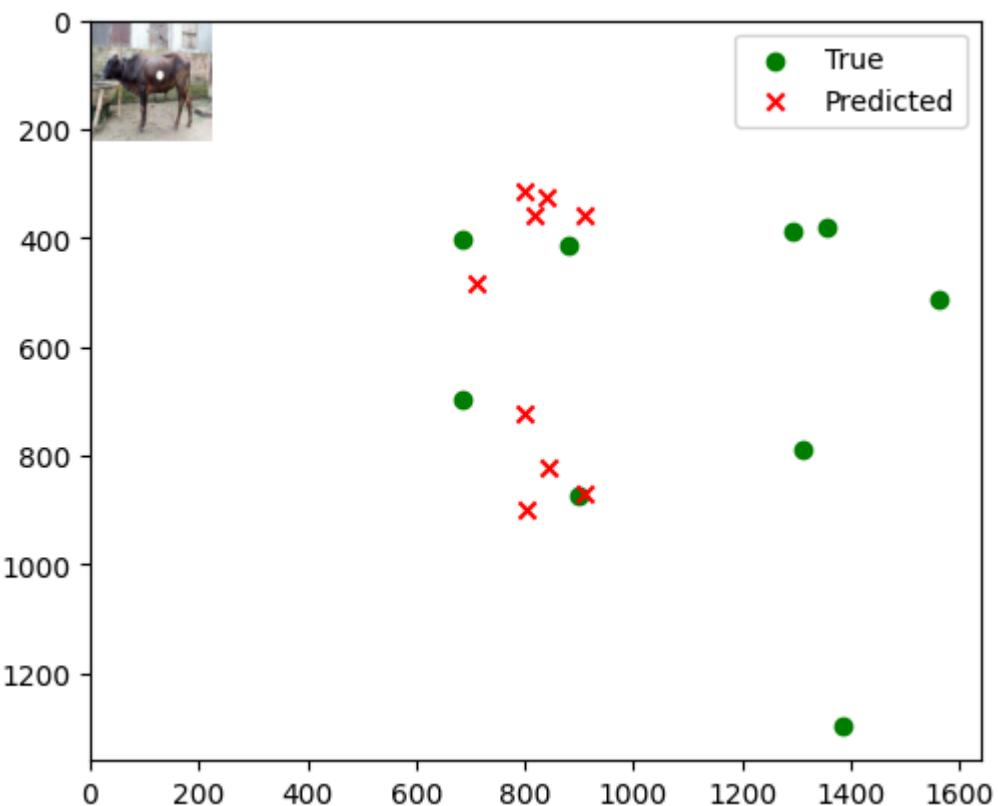


Image number: 250

True keypoints: [759. 287. 1742. 373. 709. 633. 953. 299. 980. 785. 140 0. 268.

1410. 723. 1493. 240. 1547. 1253.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[749.2097 322.48703]

[643.4551 438.65298]

[732.2294 662.1788]

[828.6143 324.6682]

[829.72656 795.14197]

[762.5938 290.86414]

[765.6518 750.48846]

[726.17316 278.52197]

[730.81836 819.9137]]

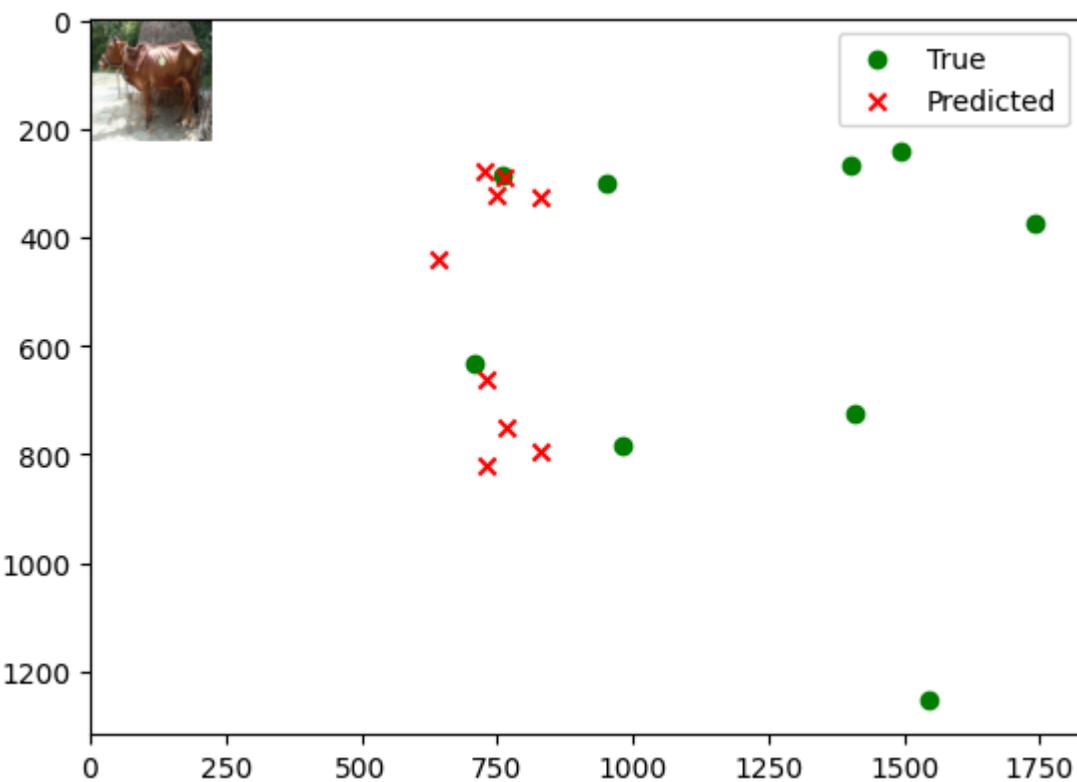


Image number: 251

True keypoints: [1203. 300. 239. 353. 1257. 625. 985. 330. 984. 782. 53
8. 255.
543. 732. 455. 224. 472. 1144.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[772.5907 333.82166]
[665.82 452.92438]
[754.80975 682.78546]
[855.78955 336.13885]
[856.8689 820.72534]
[788.2489 302.19193]
[791.39966 774.3953]
[750.99036 289.76273]
[755.644 846.80457]]

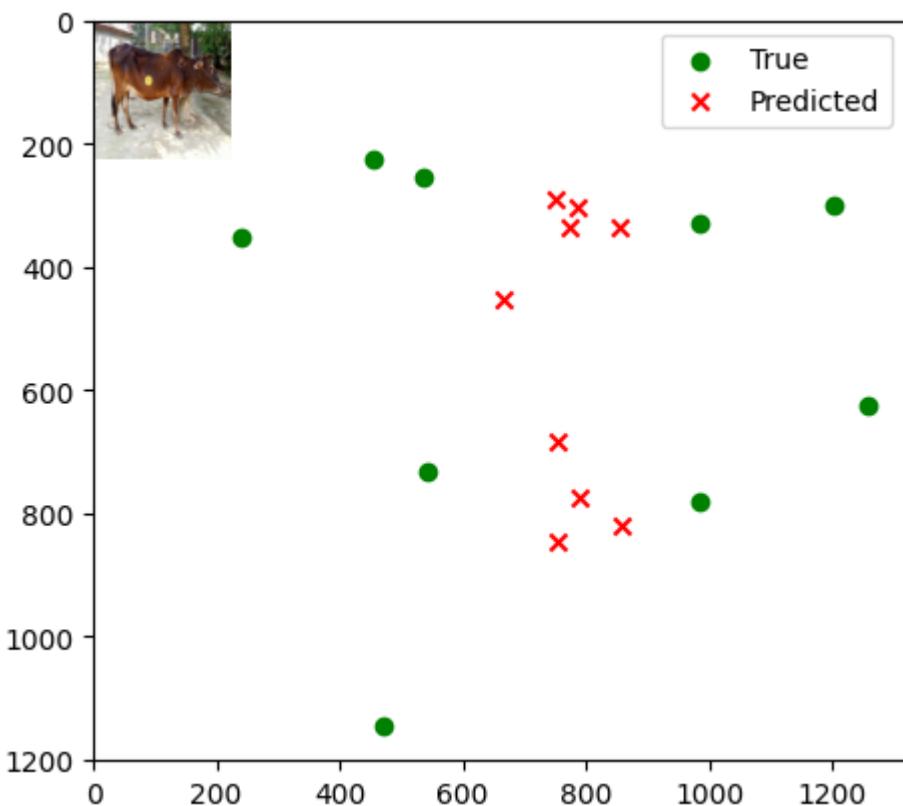


Image number: 252

True keypoints: [1267. 327. 135. 434. 1270. 691. 1028. 319. 1014. 815. 49
7. 242.

516. 728. 399. 222. 443. 1296.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[779.3861 337.3213]

[672.5729 457.18814]

[761.3751 688.7932]

[863.88806 339.70932]

[865.0078 828.29315]

[795.9577 305.87735]

[799.16797 781.4502]

[758.5338 293.45547]

[763.13293 854.81244]]

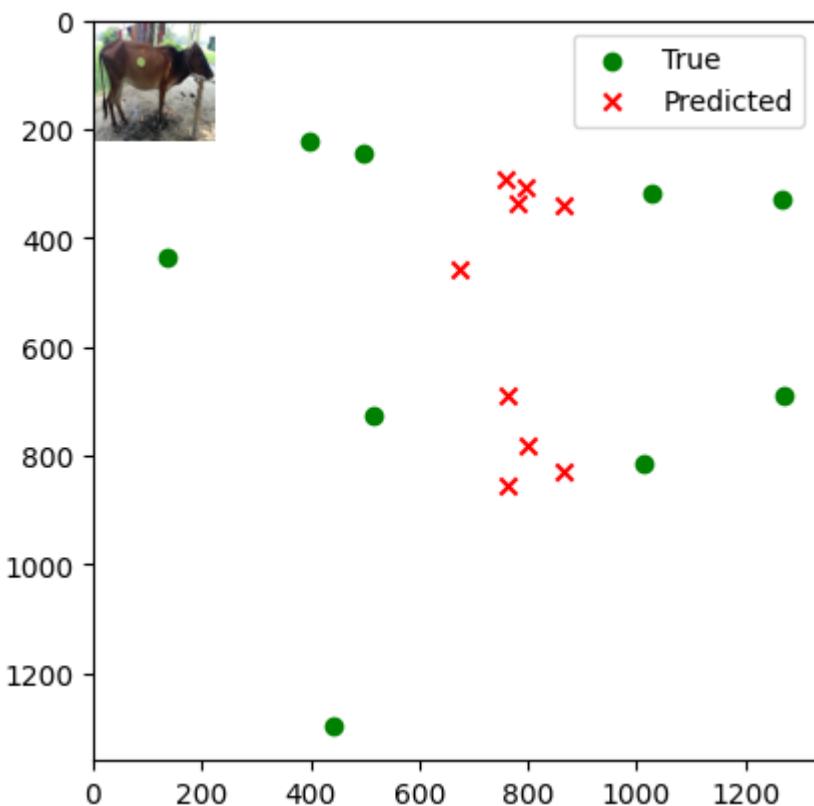


Image number: 253

True keypoints: [729. 252. 1715. 315. 671. 586. 896. 245. 910. 754. 136
7. 208.

1382. 676. 1460. 192. 1479. 1305.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[711.2241 304.39825]

[610.11835 415.60492]

[695.16077 628.21826]

[785.72534 306.6069]

[786.84265 754.28406]

[722.9856 273.81195]

[725.92194 711.8131]

[688.35205 261.81302]

[692.88806 777.49756]]

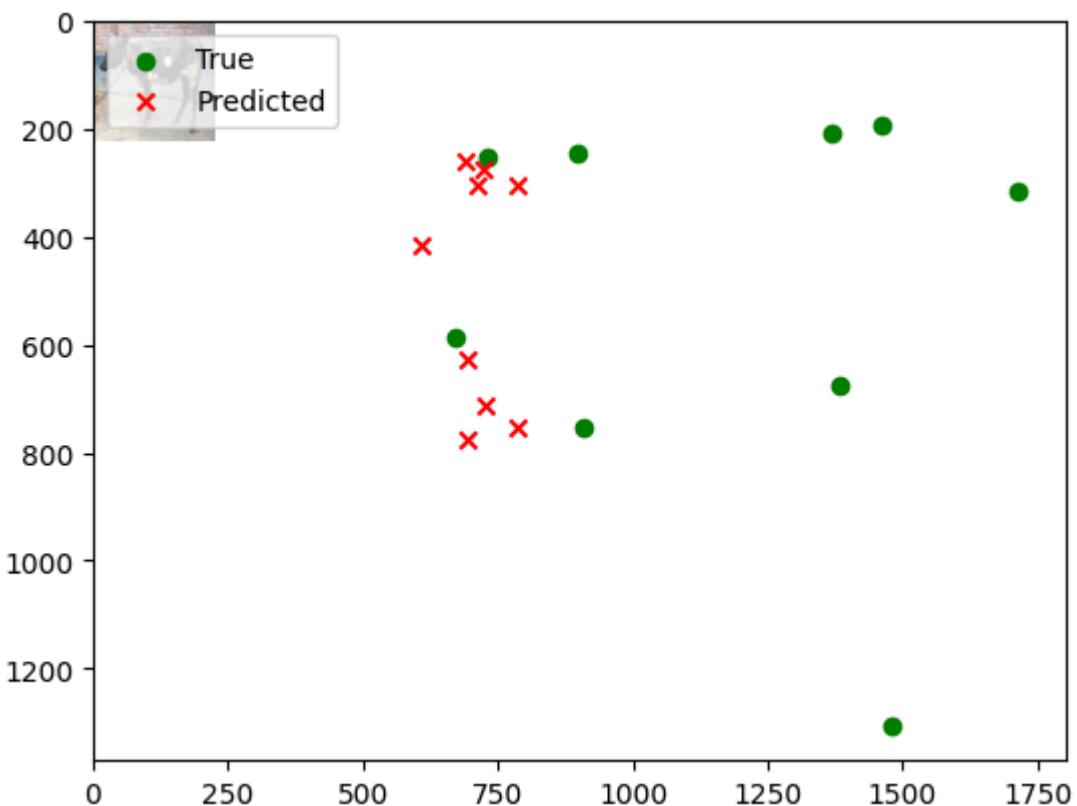


Image number: 254

True keypoints: [710. 282. 1651. 430. 713. 659. 934. 310. 943. 824. 138 0. 277.

1366. 747. 1458. 268. 1426. 1277.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[791.41516 343.21548]

[683.7313 464.56708]

[773.02686 699.4857]

[877.7824 345.64297]

[878.891 841.3983]

[808.9662 311.6856]

[812.22504 793.7669]

[771.0521 299.20712]

[775.6415 868.5446]]

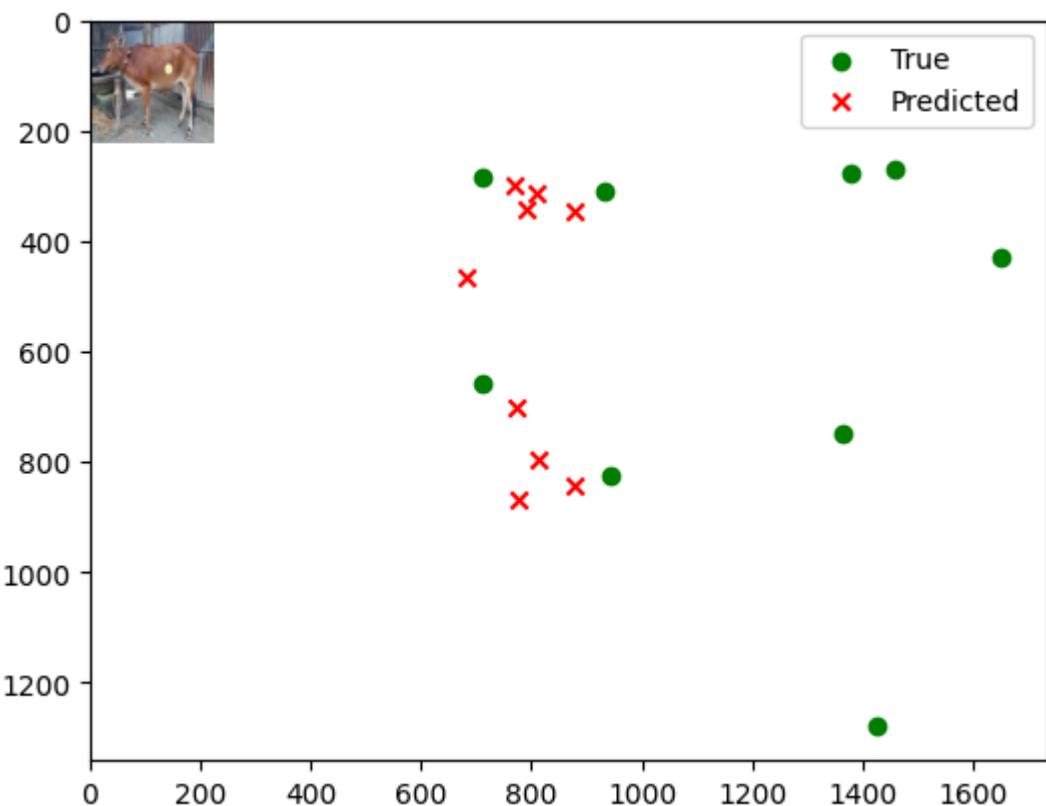


Image number: 255

True keypoints: [660. 219. 1663. 345. 607. 553. 836. 237. 847. 744. 131 9. 221.

1334. 688. 1407. 204. 1434. 1164.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[749.91644 322.95853]

[645.74384 439.1583]

[732.75146 662.56476]

[830.11194 325.3126]

[831.1868 796.2903]

[764.4528 291.9001]

[767.5432 751.3273]

[728.26056 279.63828]

[732.85645 821.3958]]

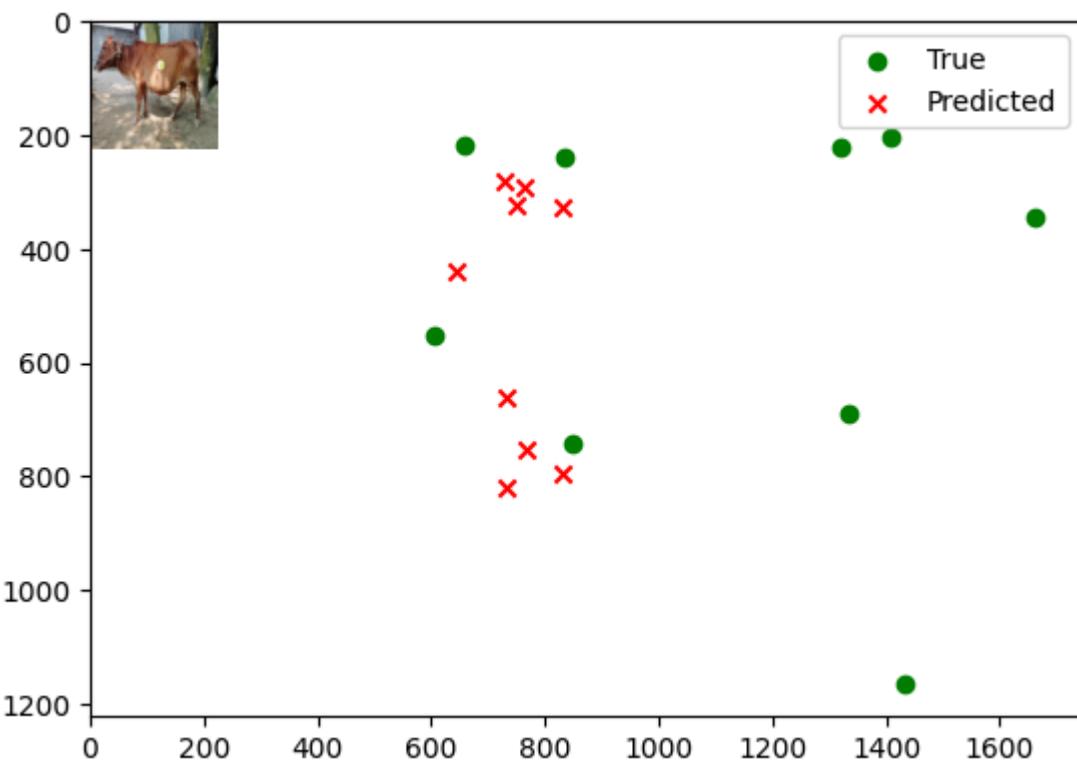


Image number: 256

True keypoints: [640. 229. 1659. 369. 610. 586. 847. 241. 857. 766. 133
1. 213.
1331. 687. 1438. 204. 1442. 1166.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[673.1191 287.96484]
[570.4909 393.48563]
[658.6885 595.8875]
[740.8833 289.28018]
[741.9624 712.2242]
[679.4457 256.5825]
[682.44165 673.335]
[645.70844 244.7567]
[650.1313 732.88416]]

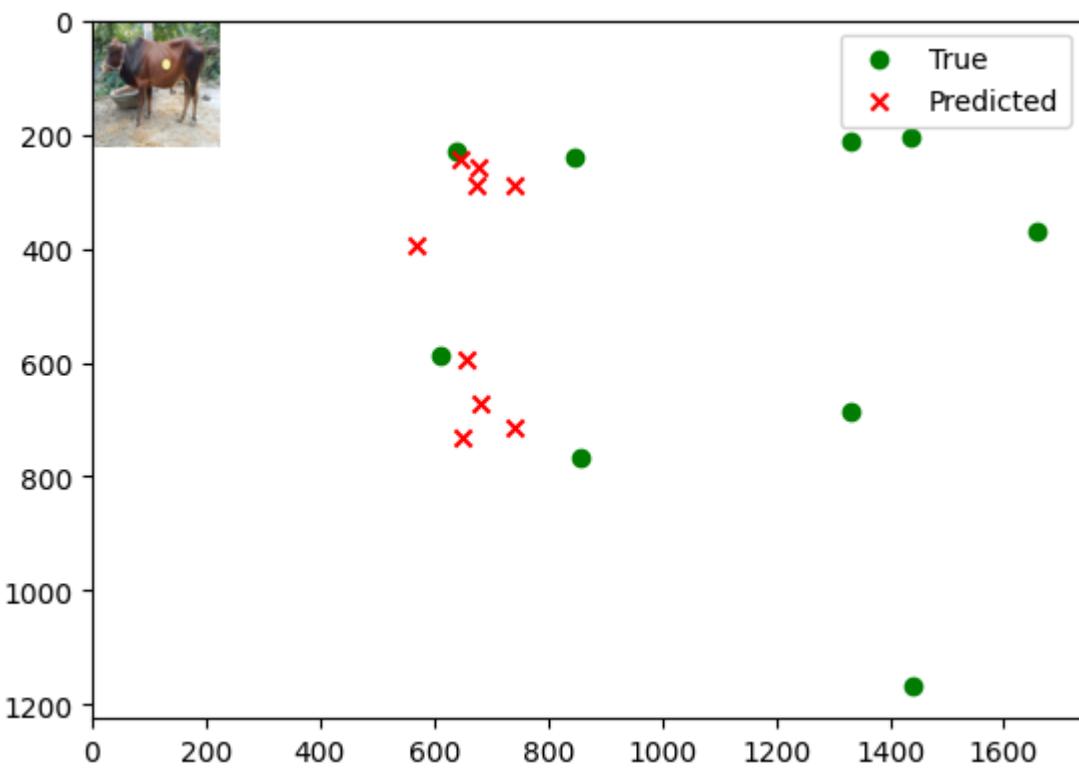


Image number: 257

True keypoints: [666. 305. 1788. 486. 602. 679. 865. 313. 875. 829. 141
4. 273.
1405. 794. 1520. 274. 1509. 1262.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[780.50134 337.83505]
[673.4348 457.85873]
[762.48303 689.81537]
[865.0919 340.19986]
[866.2101 829.4693]
[797.0451 306.32034]
[800.2396 782.564]
[759.53424 293.8714]
[764.1281 856.0055]]

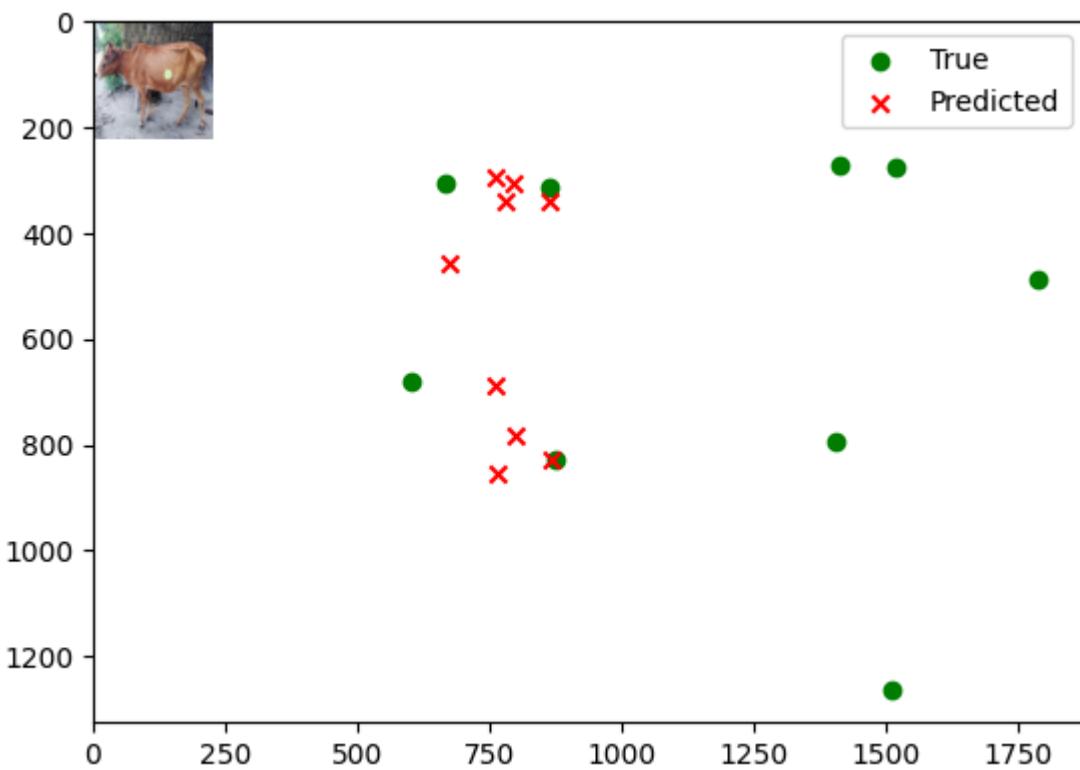


Image number: 258

True keypoints: [698. 382. 1609. 500. 717. 698. 882. 373. 910. 824. 134
1. 316.

1345. 726. 1422. 313. 1419. 1197.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[836.232 365.19006]
[724.946 492.06348]
[816.5066 739.35864]
[929.3054 367.69205]
[930.41724 890.1129]
[857.0868 333.17685]
[860.5587 839.6566]
[817.36444 320.43265]
[821.9807 919.52936]]

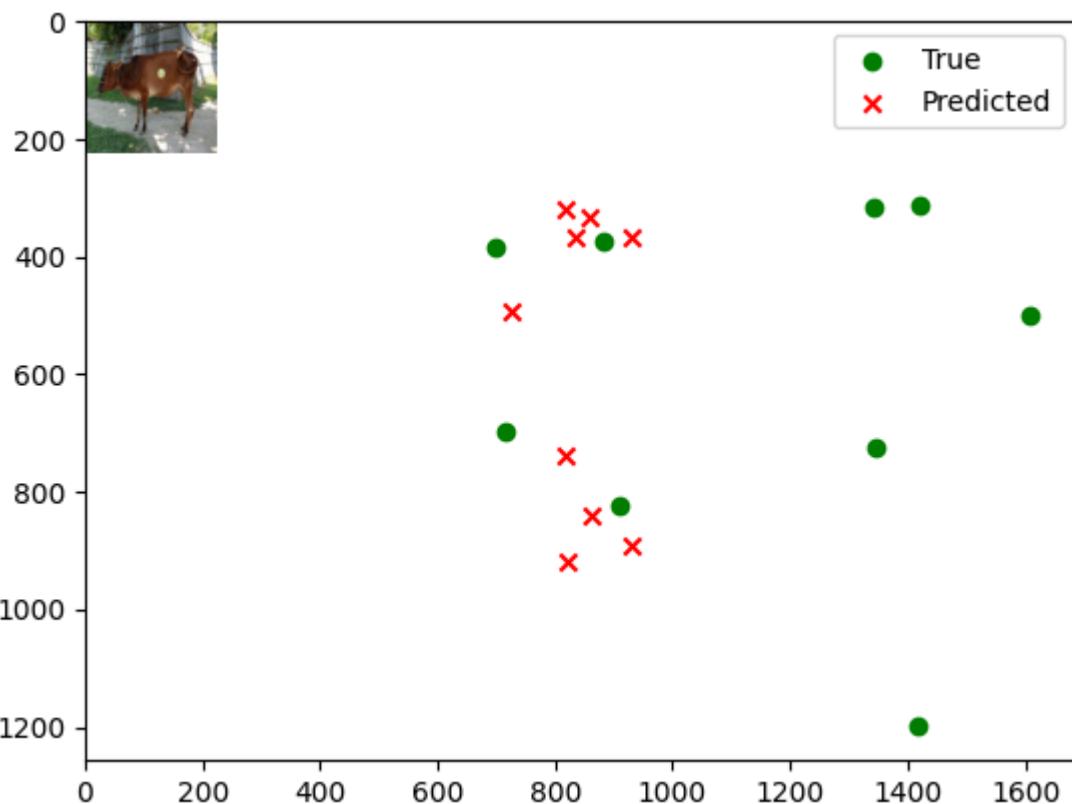


Image number: 259

True keypoints: [649. 166. 1638. 318. 620. 466. 860. 185. 860. 648. 131
9. 176.

1311. 598. 1413. 160. 1407. 1053.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[718.2298 308.33066]

[616.95355 420.18396]

[701.9752 634.5607]

[794.1497 310.55362]

[795.30884 762.15625]

[730.9508 277.95544]

[733.9726 719.1823]

[696.11914 265.9839]

[700.5357 785.8088]]

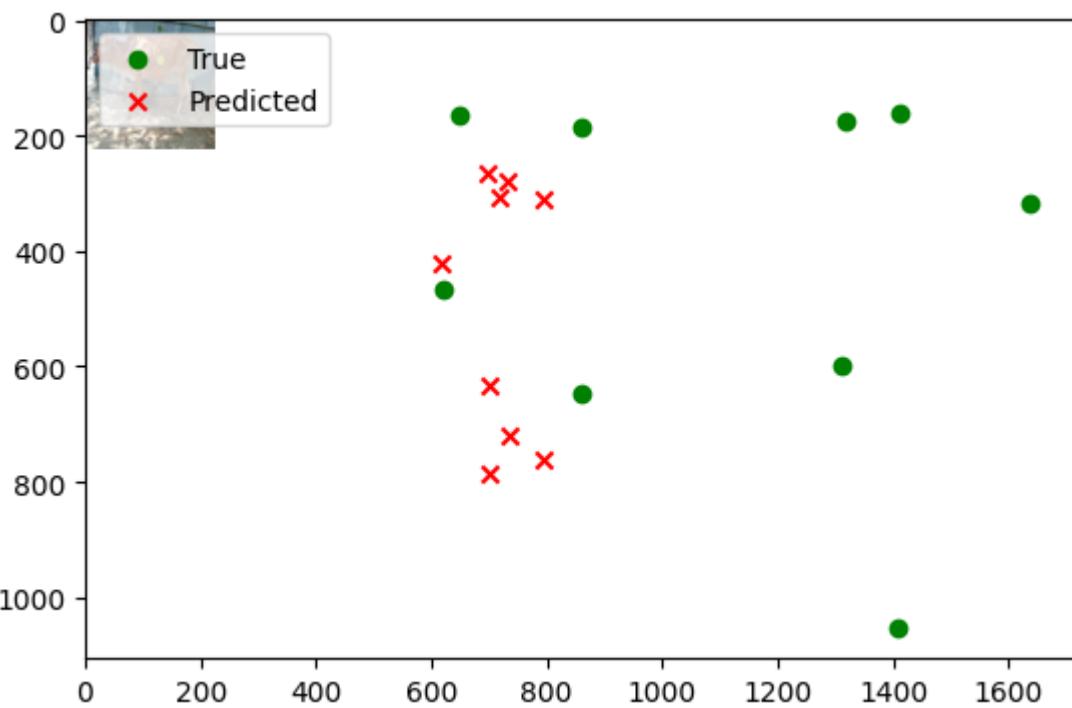


Image number: 260

True keypoints: [1211. 261. 327. 376. 1261. 564. 1054. 266. 1047. 723. 65
3. 211.

643. 663. 551. 201. 556. 1130.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[602.06946 257.09155]

[498.69714 352.1099]

[590.3315 535.03577]

[657.99896 256.98373]

[659.084 634.2036]

[599.7593 224.9266]

[602.8049 601.58575]

[567.95514 213.57846]

[572.0929 650.4312]]

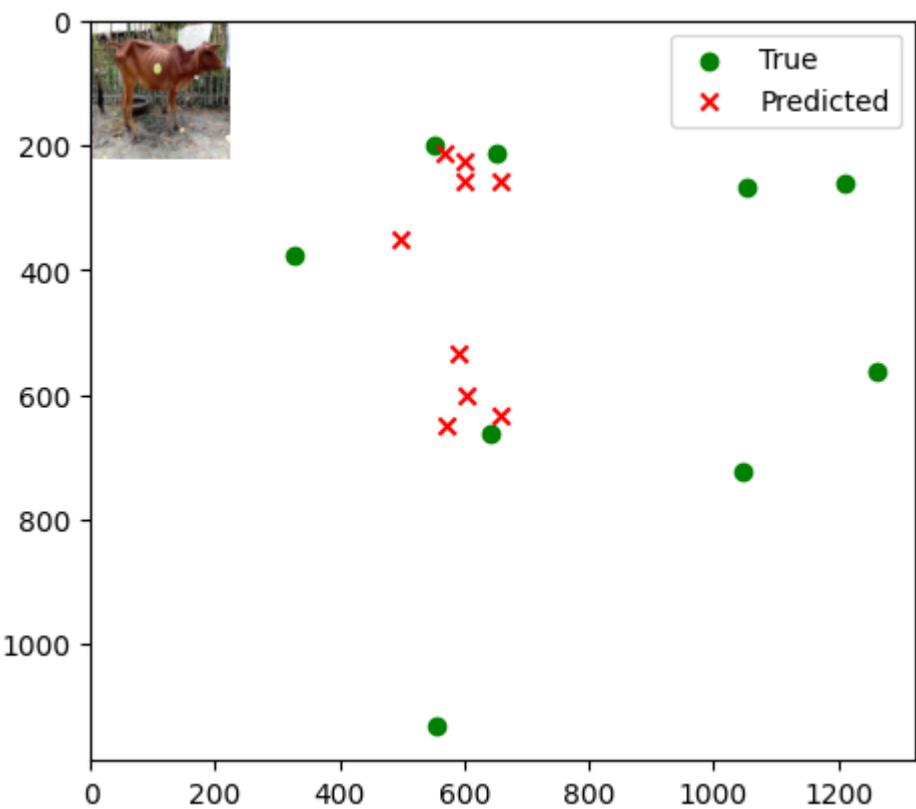


Image number: 261

True keypoints: [1217. 251. 185. 290. 1283. 620. 1036. 264. 1024. 772. 56. 8. 170.

557. 671. 451. 138. 487. 1167.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[655.2566 280.93866]

[551.2486 383.50604]

[641.6042 581.0541]

[719.83765 281.6676]

[720.8545 692.46027]

[658.7301 249.0173]

[661.8256 655.4838]

[625.3304 237.3466]

[629.66614 711.8374]]

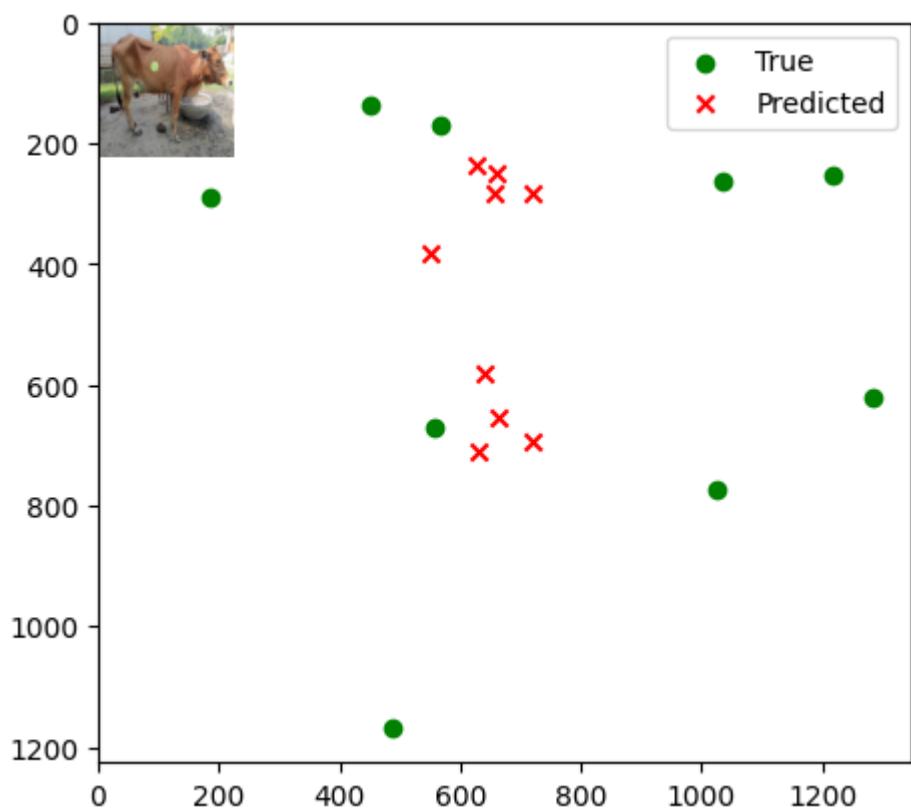


Image number: 262

True keypoints: [1205. 246. 233. 345. 1261. 587. 1021. 243. 1018. 733. 535. 180.]

537. 648. 455. 177. 469. 1121.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [

[560.2305 387.69666]

[648.78864 587.1949]

[729.0956 284.96408]

[730.16626 701.0691]

[668.0886 252.4588]

[671.1501 663.0947]

[634.6675 240.78262]

[639.0285 721.13385]

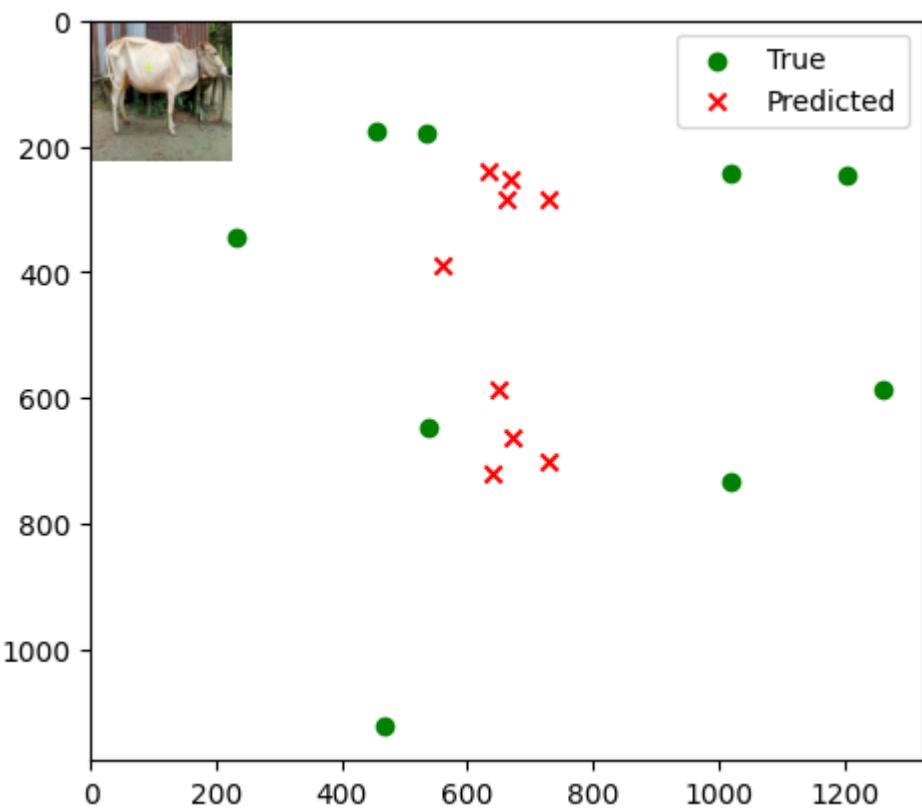


Image number: 263

True keypoints: [664. 286. 1735. 384. 615. 684. 864. 319. 872. 837. 137
9. 268.

1384. 760. 1462. 263. 1449. 1282.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[804.5954 348.8431]

[695.42413 472.24716]

[785.88794 711.08154]

[892.48627 351.37012]

[893.50256 855.4084]

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[784.0496 304.1706]

[788.7656 883.10205]]

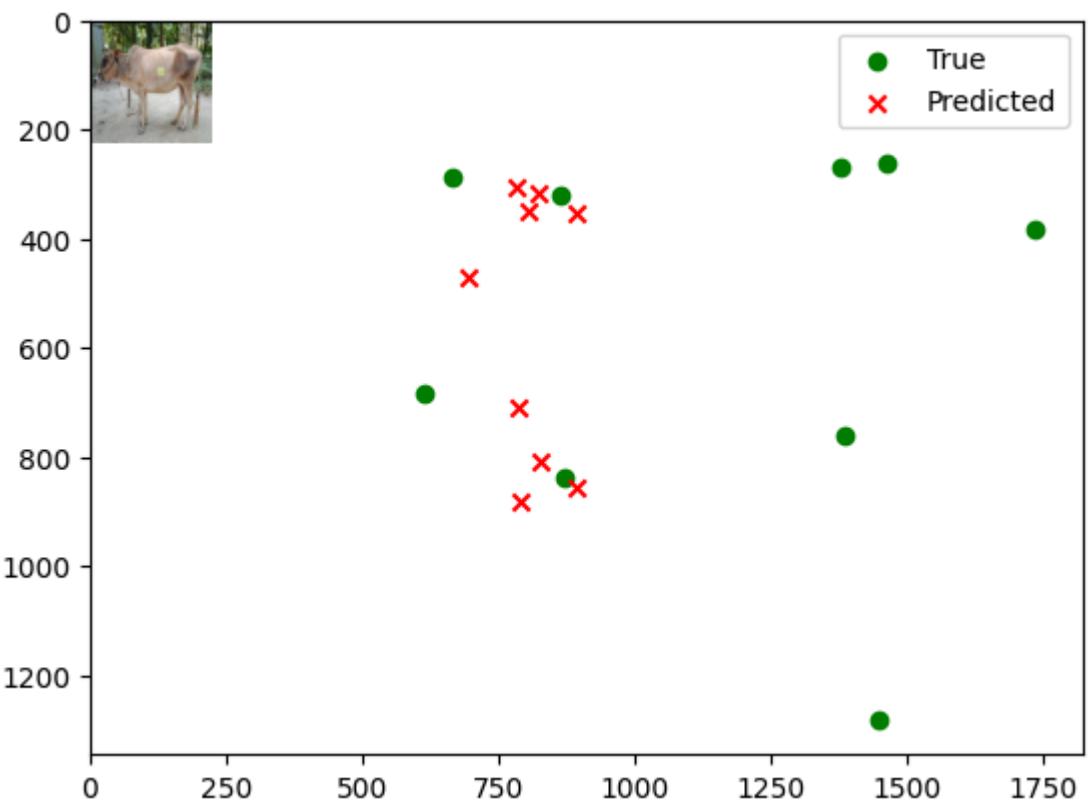


Image number: 264

True keypoints: [1205. 321. 201. 442. 1185. 655. 947. 326. 963. 833. 53
2. 306.

535. 790. 411. 297. 416. 1288.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[768.56525 332.69934]

[662.037 450.87006]

[750.8898 679.4216]

[851.4364 334.8869]

[852.65204 816.5644]

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[787.3722 770.5158]

[747.09564 289.02353]

[751.60626 842.4883]]

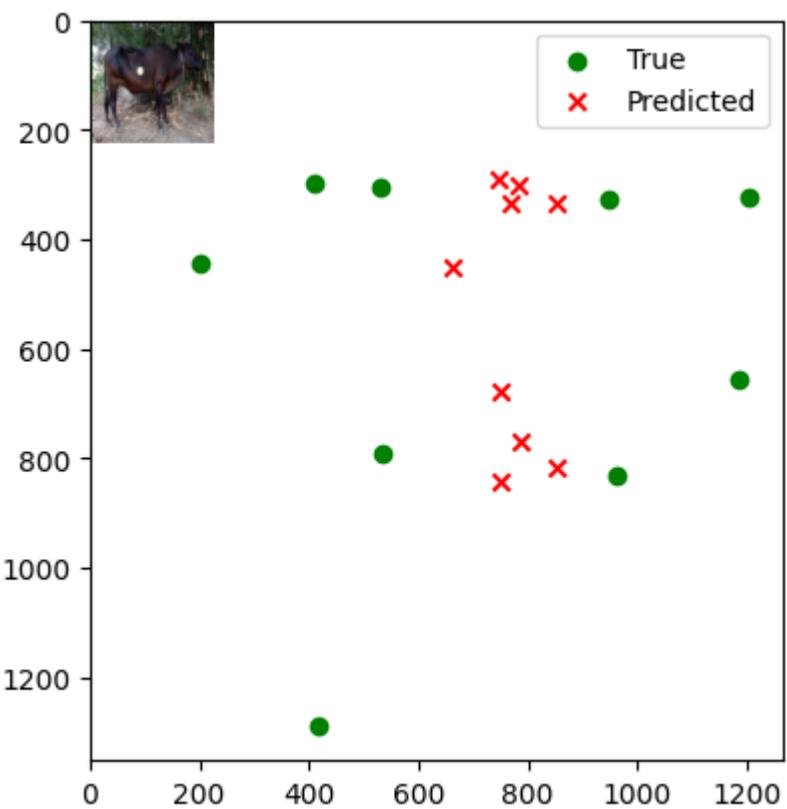


Image number: 265

True keypoints: [731. 372. 1656. 378. 681. 742. 930. 356. 976. 827. 135
3. 303.

1368. 750. 1453. 282. 1487. 1259.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[787.6472 341.06116]

[679.8539 462.091]

[769.40594 696.094]

[873.1616 343.47827]

[874.30286 837.1255]

[804.59216 309.3714]

[807.77795 789.79645]

[766.74445 296.85388]

[771.3853 864.0149]]

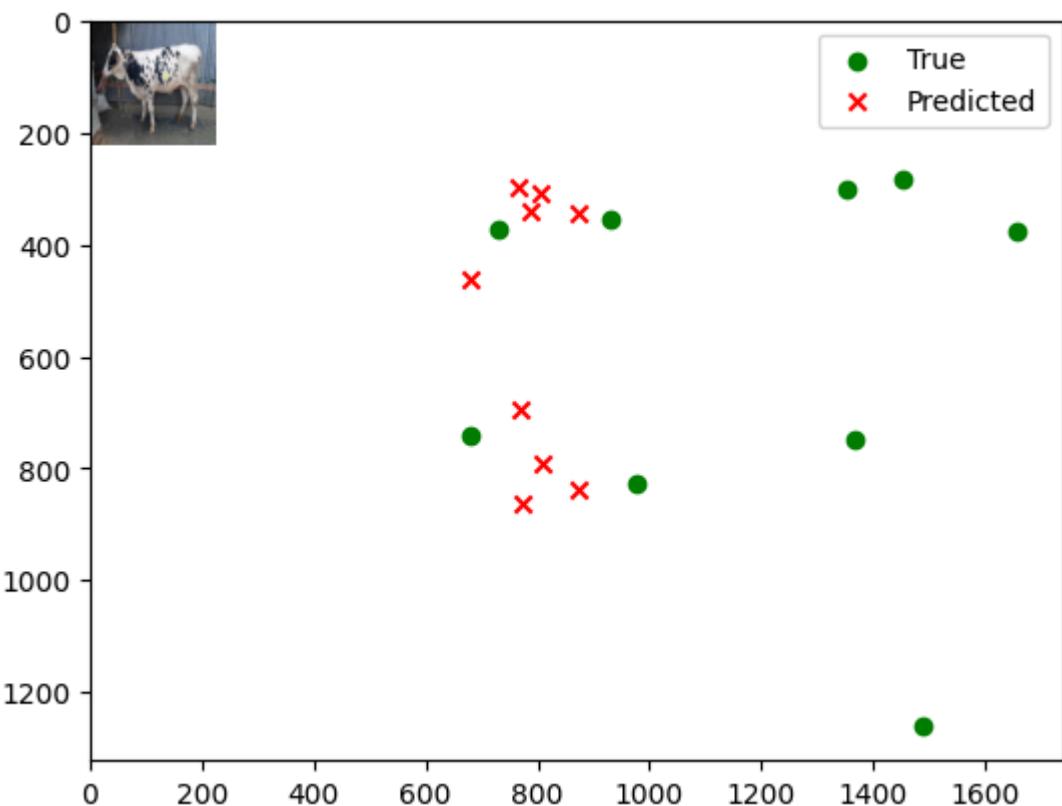


Image number: 266

True keypoints: [677. 424. 1661. 499. 678. 734. 888. 421. 921. 904. 138
4. 355.

1411. 835. 1438. 353. 1481. 1255.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[855.5313 375.965]

[743.5002 504.589]

[835.1494 756.7334]

[952.3273 378.39035]

[953.4994 911.60236]

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[838.3976 331.64117]

[842.7871 942.22736]]

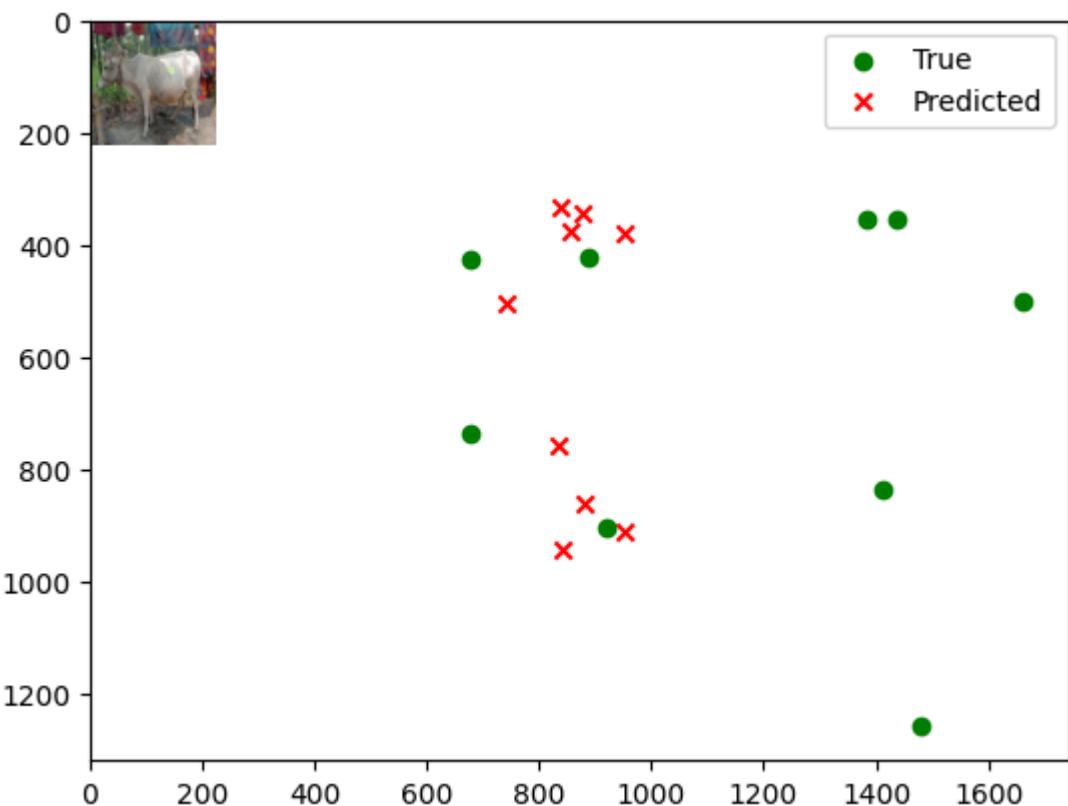


Image number: 267

True keypoints: [733. 305. 1546. 411. 680. 636. 894. 330. 894. 762. 128 3. 296.

1291. 706. 1351. 283. 1370. 1246.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[793.60187 344.27505]

[685.5377 465.90234]

[775.1564 701.43884]

[880.19617 346.67294]

[881.33203 843.724]

[811.1821 312.64423]

[814.45667 795.9742]

[773.14453 300.13504]

[777.7428 870.94885]]

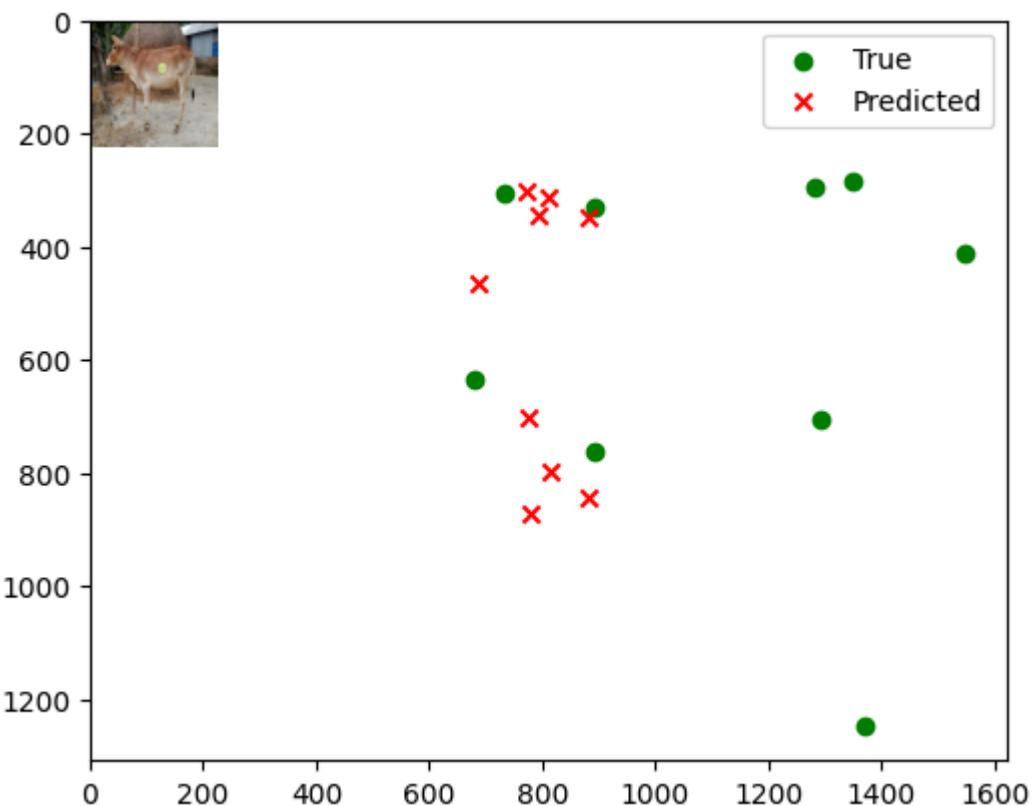


Image number: 268

True keypoints: [1138. 411. 408. 457. 1190. 657. 1015. 410. 1001. 784. 649. 365.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[786.9288 342.53418]

[677.6702 462.6129]

[768.8513 696.2949]

[872.34564 344.46973]

[873.4399 836.3519]

[803.14325 310.58008]

[806.5376 789.5331]

[765.13837 298.14633]

[769.6532 863.0607]]

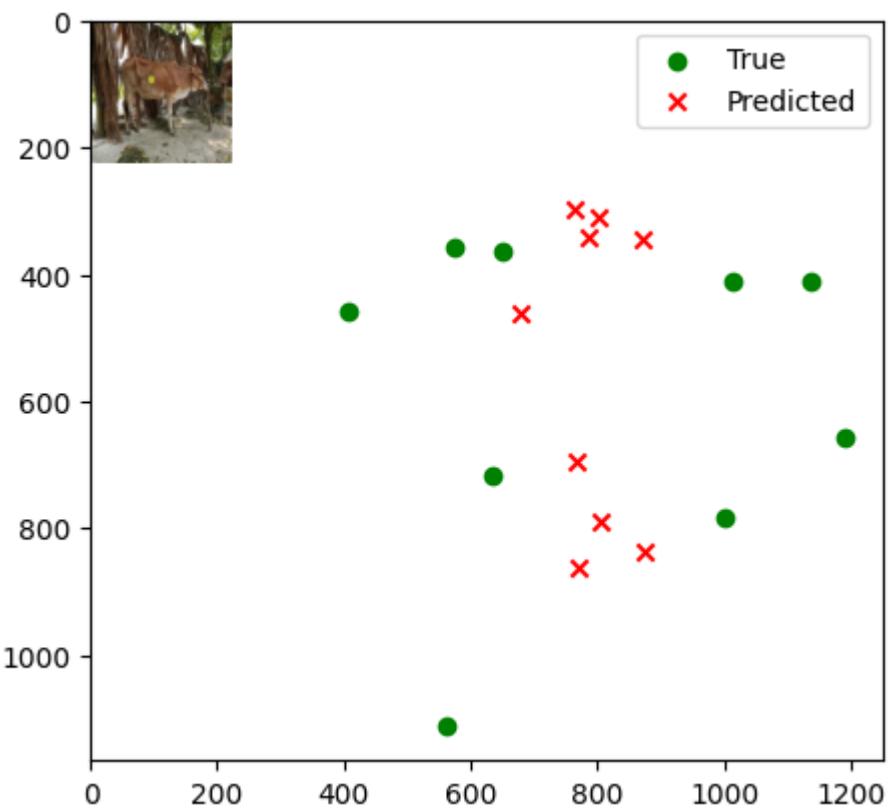


Image number: 269

True keypoints: [608. 337. 1558. 509. 555. 651. 775. 344. 786. 791. 125
3. 324.

1251. 759. 1360. 329. 1364. 1232.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[824.0984 358.73676]

[713.3336 484.36554]

[804.7843 728.496]

[915.00977 361.23483]

[916.0729 876.6948]

[843.6137 326.57843]

[846.9917 827.05615]

[804.2916 313.84183]

[808.98303 905.38275]]

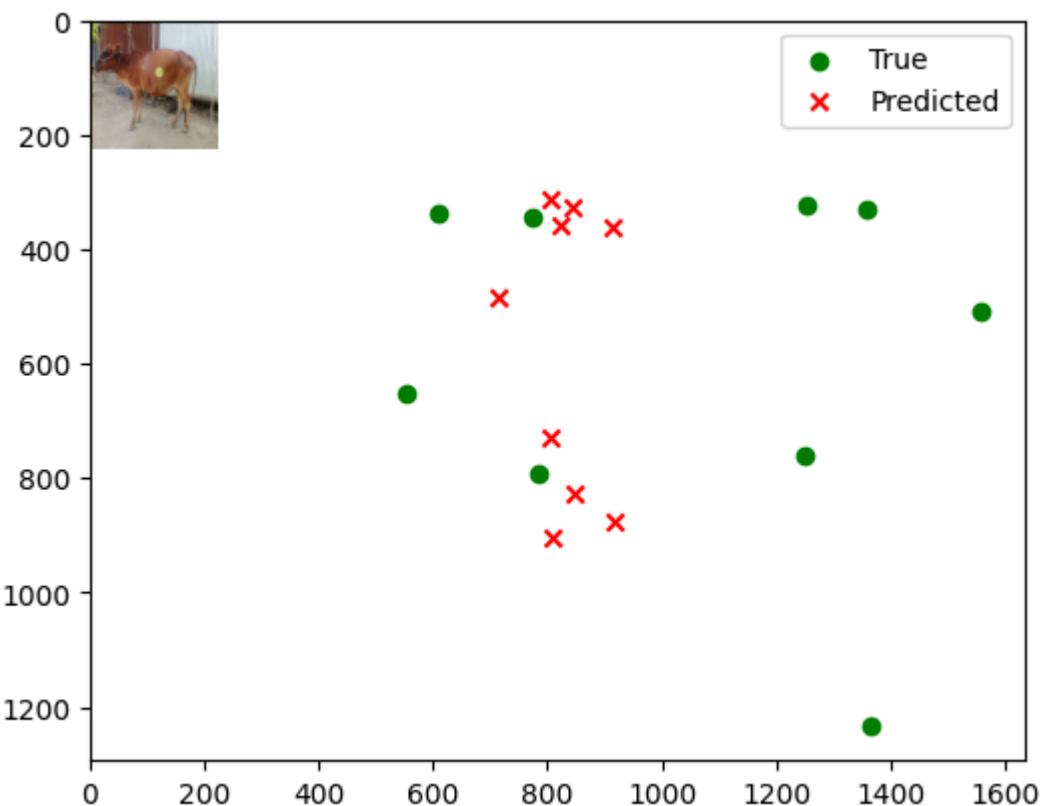


Image number: 270

True keypoints: [1266. 348. 150. 404. 1272. 699. 1037. 350. 1021. 856. 55
2. 304.

548. 836. 391. 282. 429. 1266.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[767.7168 332.4375]

[659.0275 450.5056]

[750.3401 679.1988]

[849.6218 334.3374]

[850.7102 815.0873]

[781.6693 300.25598]

[784.92163 769.6266]

[744.27563 287.79865]

[748.8613 840.56195]]

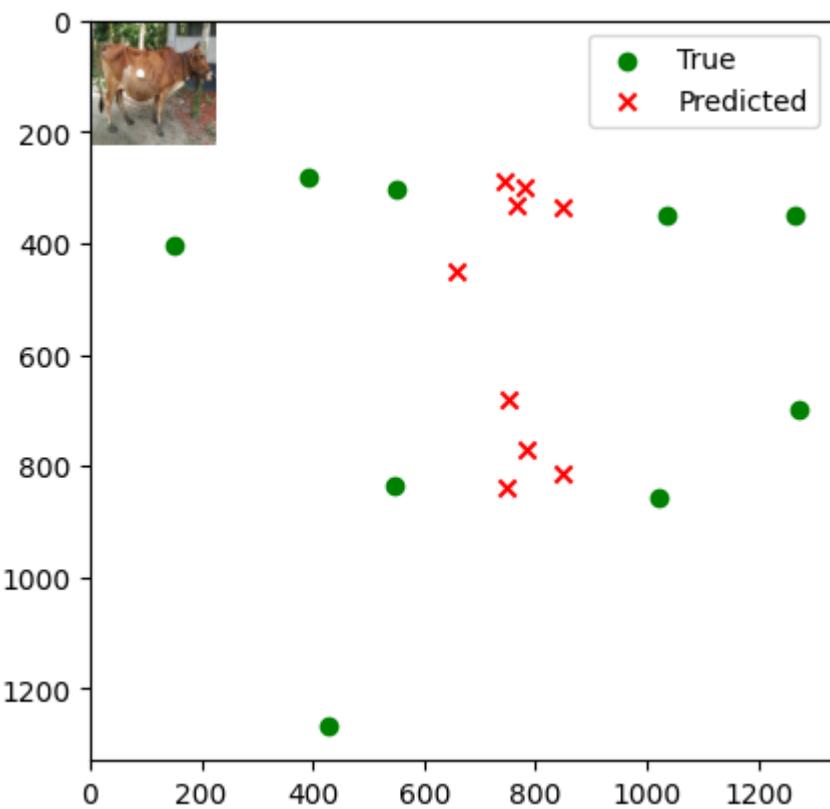


Image number: 271

True keypoints: [743. 314. 1568. 391. 742. 609. 938. 311. 963. 733. 133
3. 274.

1331. 662. 1406. 271. 1426. 1143.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[788.07104 340.9436]

[680.0586 462.18384]

[769.8258 696.42194]

[873.4488 343.3647]

[874.50244 837.44934]

[804.76294 309.05524]

[807.9505 790.11194]

[766.85895 296.48926]

[771.5972 864.2831]]

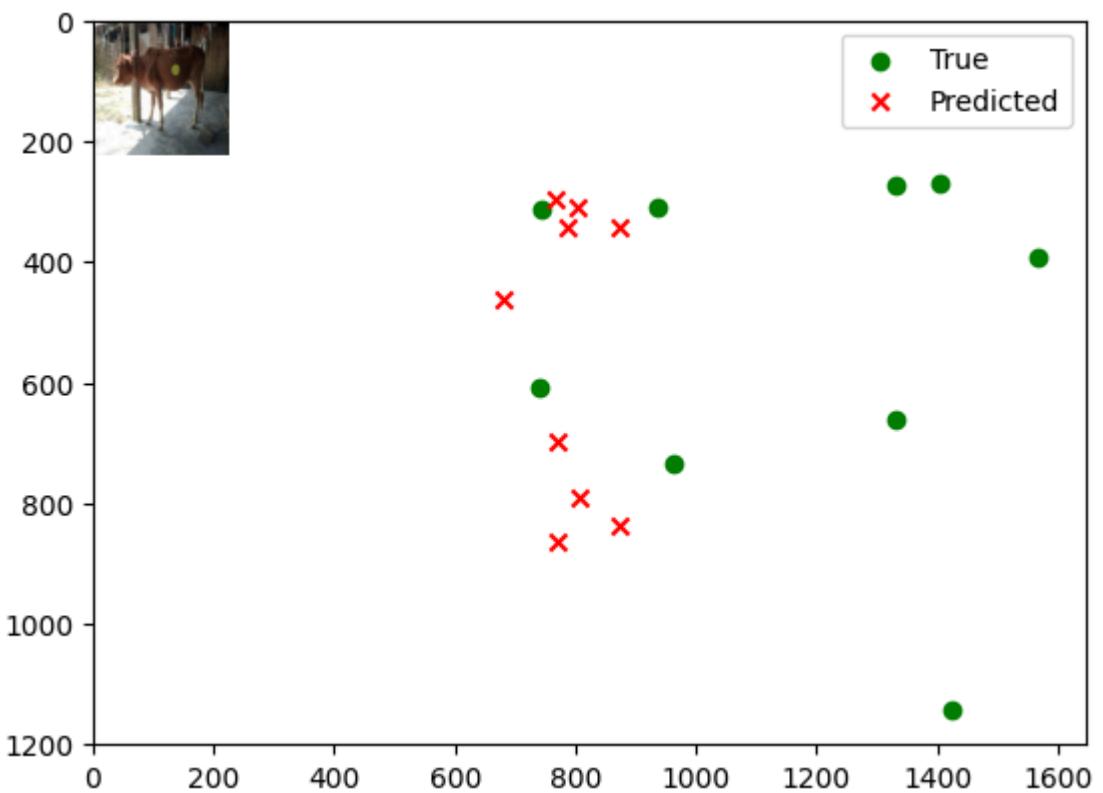


Image number: 272

True keypoints: [710. 276. 1735. 440. 679. 616. 937. 279. 941. 785. 1384. 266.

1373. 722. 1477. 250. 1413. 1346.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[769.7162 331.81567]

[663.29034 450.8701]

[752.0419 680.0588]

[852.3346 334.24783]

[853.3612 817.4806]

[785.05597 300.14612]

[788.1655 771.31274]

[747.94525 287.67212]

[752.6658 843.4095]]

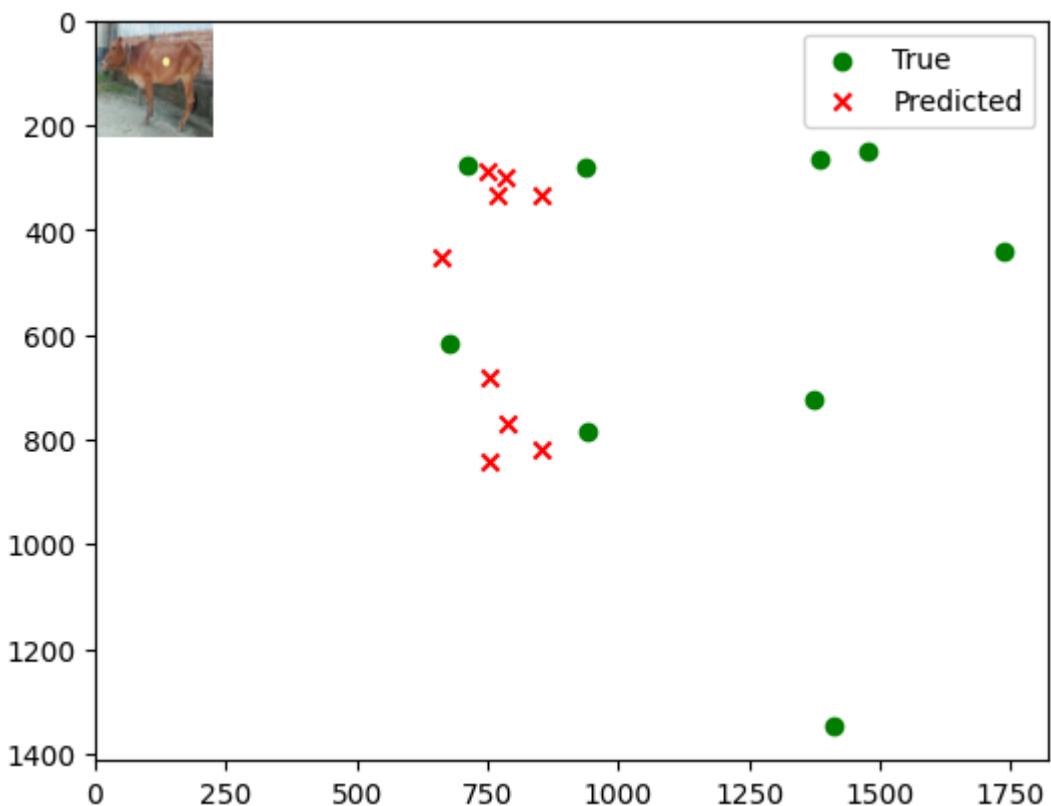


Image number: 273

True keypoints: [663. 305. 1564. 425. 648. 602. 827. 285. 846. 733. 124
2. 243.

1260. 669. 1359. 244. 1381. 1179.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[754.3386 326.12415]

[650.1911 442.38364]

[736.9815 666.67426]

[835.75867 328.41418]

[837.0036 801.4895]

[769.87134 295.47568]

[773.078 756.1503]

[733.5871 283.35614]

[737.95825 826.9659]]

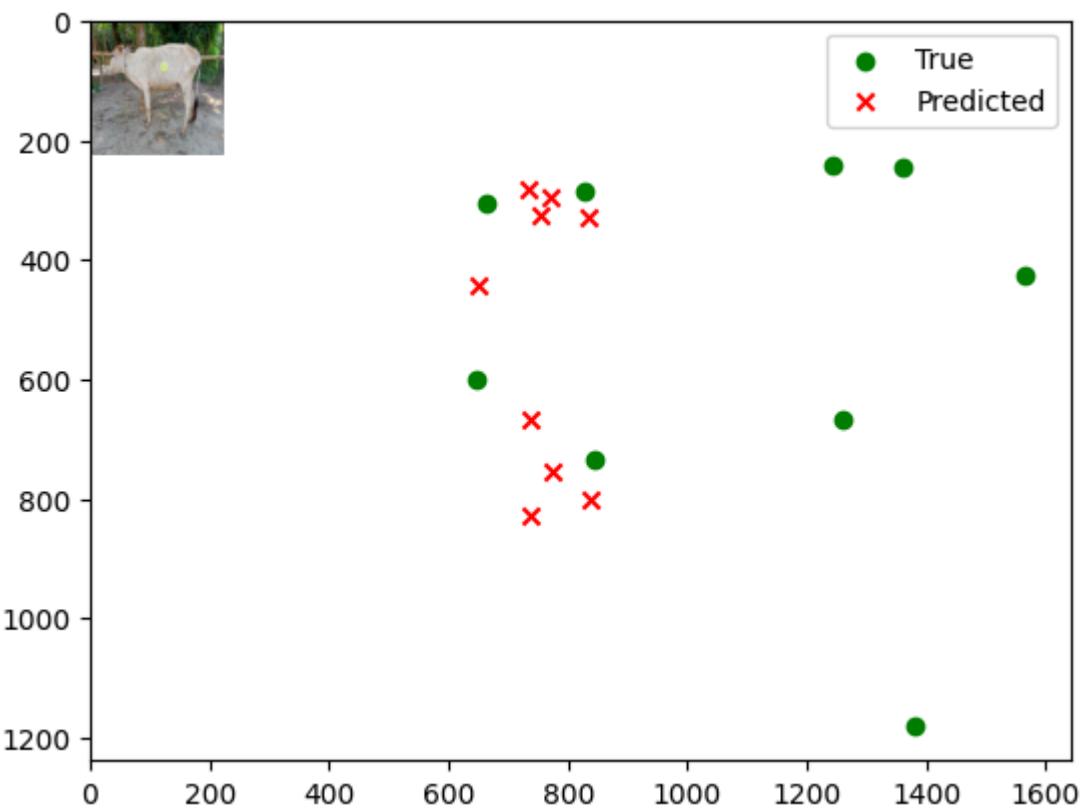


Image number: 274

True keypoints: [1187. 375. 232. 480. 1212. 635. 1007. 374. 1013. 818. 53. 363.

542. 807. 444. 345. 478. 1307.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[837.2895 366.2771]

[726.41003 493.02216]

[817.50073 740.37885]

[930.9598 368.76617]

[932.08575 891.5213]

[858.7428 334.59918]

[862.29987 840.9071]

[819.0927 321.9383]

[823.5648 921.146]]

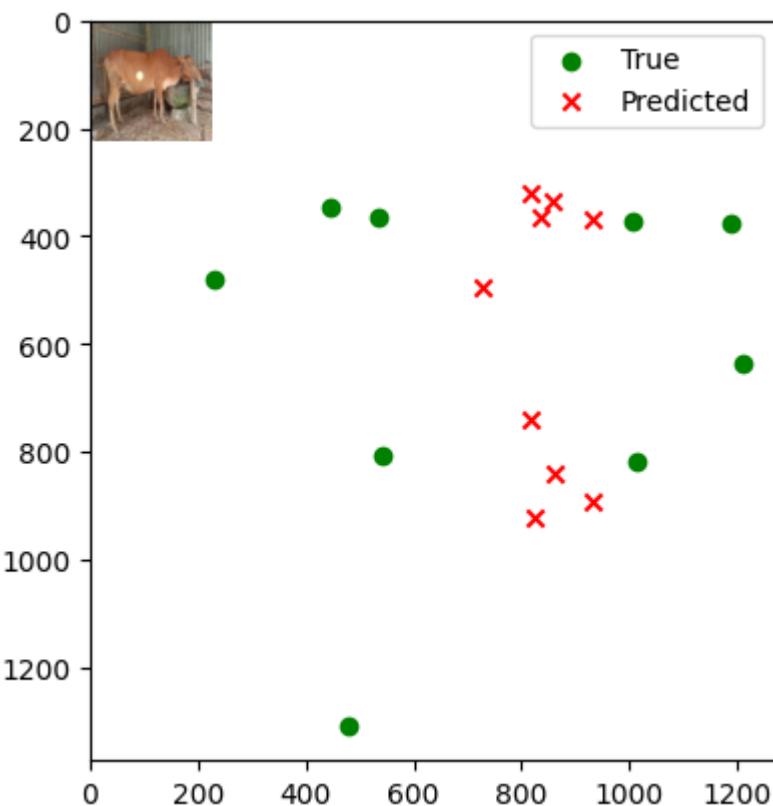


Image number: 275

True keypoints: [1171. 365. 350. 444. 1187. 661. 984. 357. 979. 764. 60. 312.

608. 682. 529. 312. 521. 1179.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[762.8582 331.43466]

[652.75415 448.27496]

[745.7871 675.5764]

[843.8284 332.93402]

[844.97656 809.69086]

[775.61365 298.96338]

[778.9856 764.98804]

[738.1385 286.55133]

[742.58954 834.67163]]

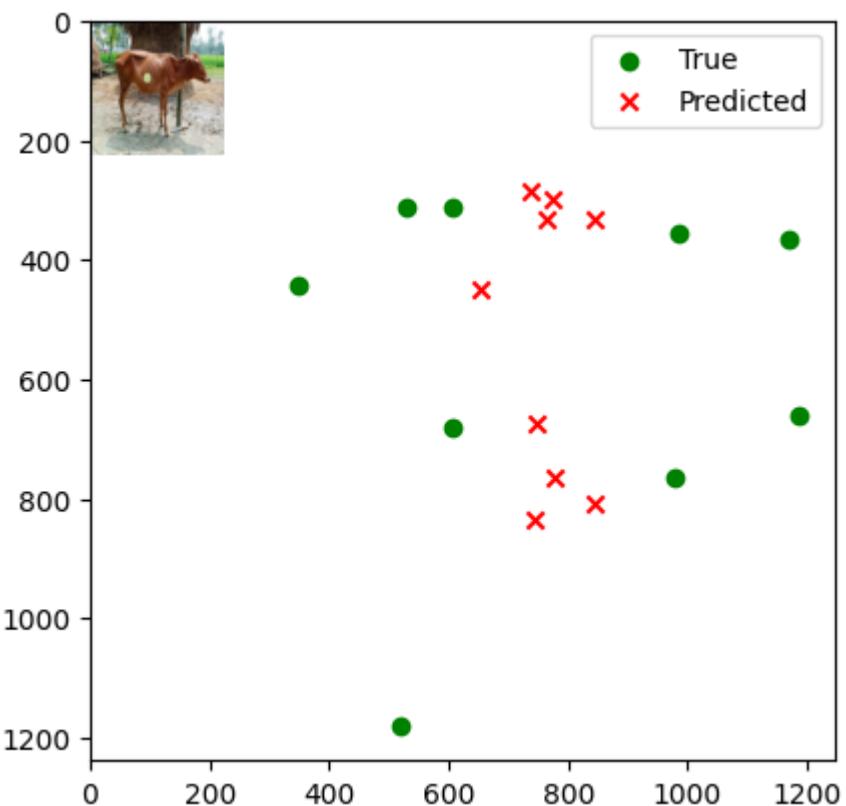


Image number: 276

True keypoints: [709. 209. 1697. 402. 654. 639. 895. 233. 900. 778. 140
2. 223.

1392. 721. 1495. 222. 1499. 1302.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[738.03375 316.7047]

[634.3507 431.65125]

[721.261 651.93945]

[816.1223 319.04483]

[817.18506 783.1762]

[751.2901 285.5369]

[754.28253 739.0126]

[715.49963 273.27673]

[720.13763 807.58765]]

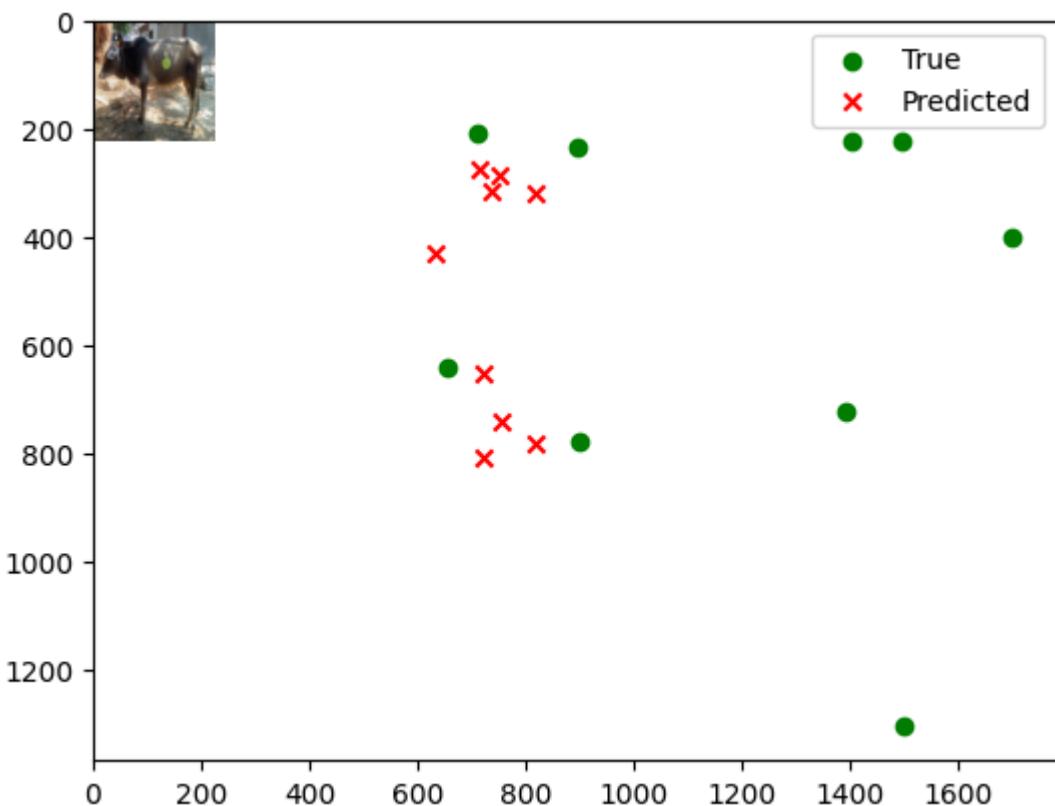


Image number: 277

True keypoints: [1227. 313. 316. 409. 1252. 630. 1041. 330. 1047. 768. 61
1. 290.

639. 749. 541. 266. 561. 1237.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[744.532 321.7459]

[631.9315 436.761]

[728.4027 659.8652]

[820.914 322.89304]

[821.9184 788.5774]

[752.9371 287.85202]

[756.2056 745.91144]

[715.5763 275.27945]

[720.34216 811.9084]]

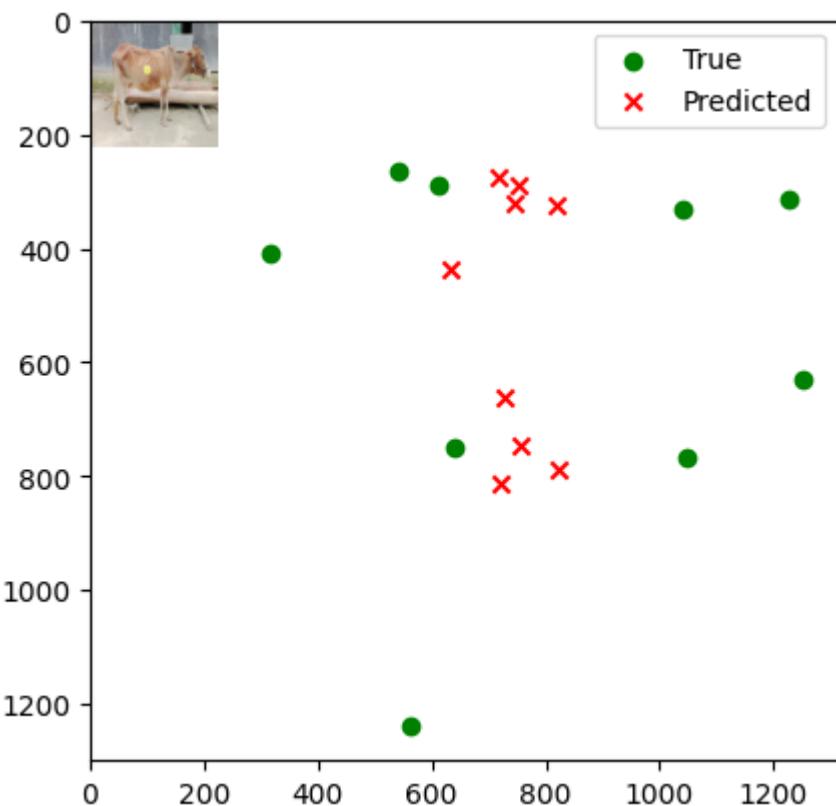


Image number: 278

True keypoints: [541. 335. 1523. 459. 563. 651. 782. 315. 790. 801. 125
3. 300.

1248. 750. 1331. 300. 1318. 1306.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[779.65955 338.257]

[673.2263 457.75732]

[761.54346 689.14624]

[864.6537 340.5885]

[865.878 828.8673]

[796.81085 307.1574]

[800.0846 781.97034]

[759.43555 294.84763]

[763.8943 855.56177]]

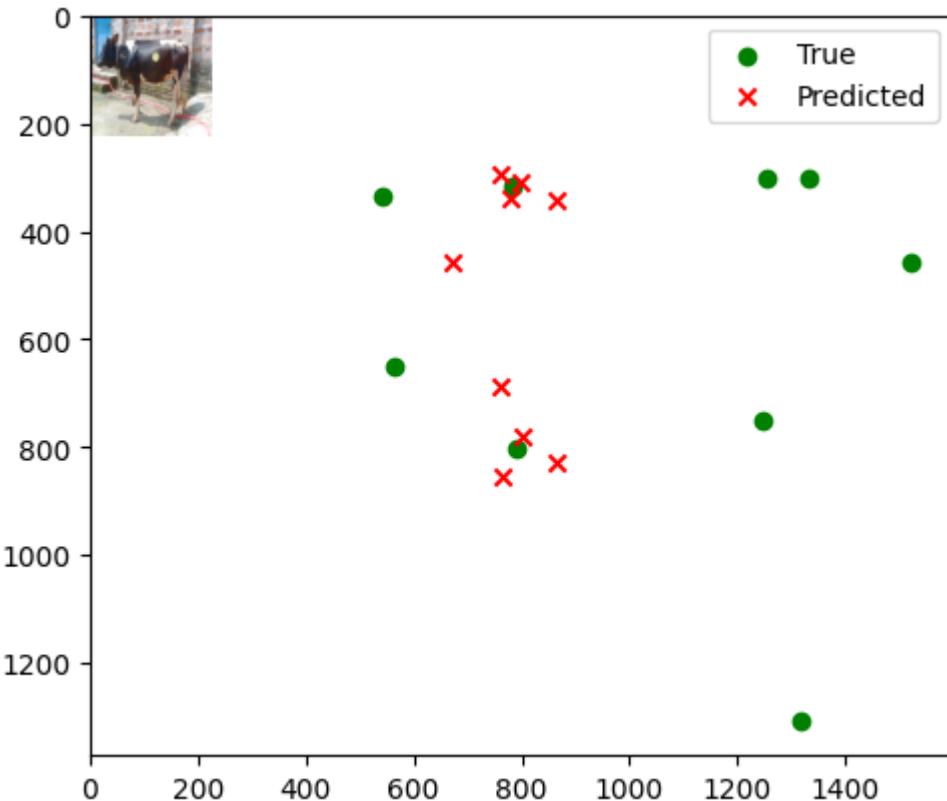


Image number: 279

True keypoints: [692. 217. 1622. 366. 712. 603. 908. 234. 934. 698. 134. 2. 234.

1355. 648. 1403. 227. 1428. 1137.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[761.65076 329.52362]

[656.9977 446.75677]

[744.08234 673.1288]

[844.10504 331.83508]

[845.3126 809.3928]

[777.682 298.7627]

[780.9017 763.5774]

[741.1134 286.55164]

[745.54504 835.2058]]

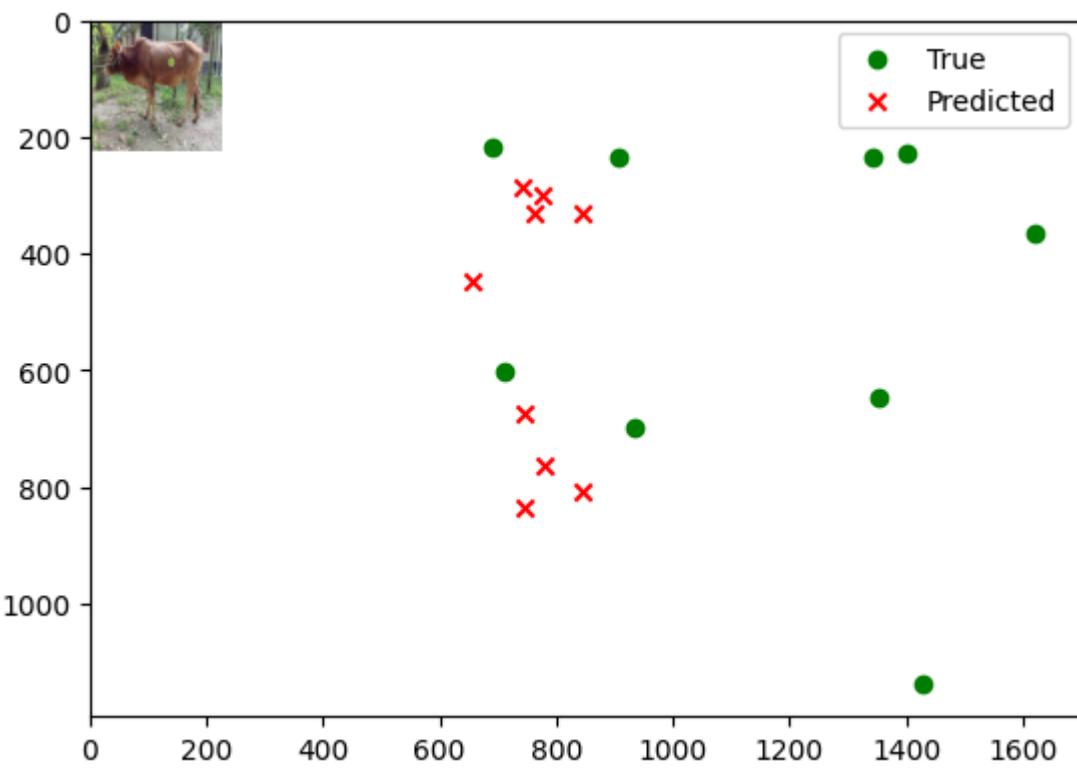


Image number: 280

True keypoints: [744. 334. 1775. 430. 742. 669. 967. 344. 984. 828. 1404. 306. 1412. 772. 1505. 288. 1484. 1205.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[798.27936 346.47253]
[689.7939 468.72467]
[779.7029 705.58527]
[885.5198 348.8895]
[886.6591 848.78345]
[816.15955 314.78833]
[819.44086 800.7243]
[777.9332 302.24176]
[782.53613 876.22253]]

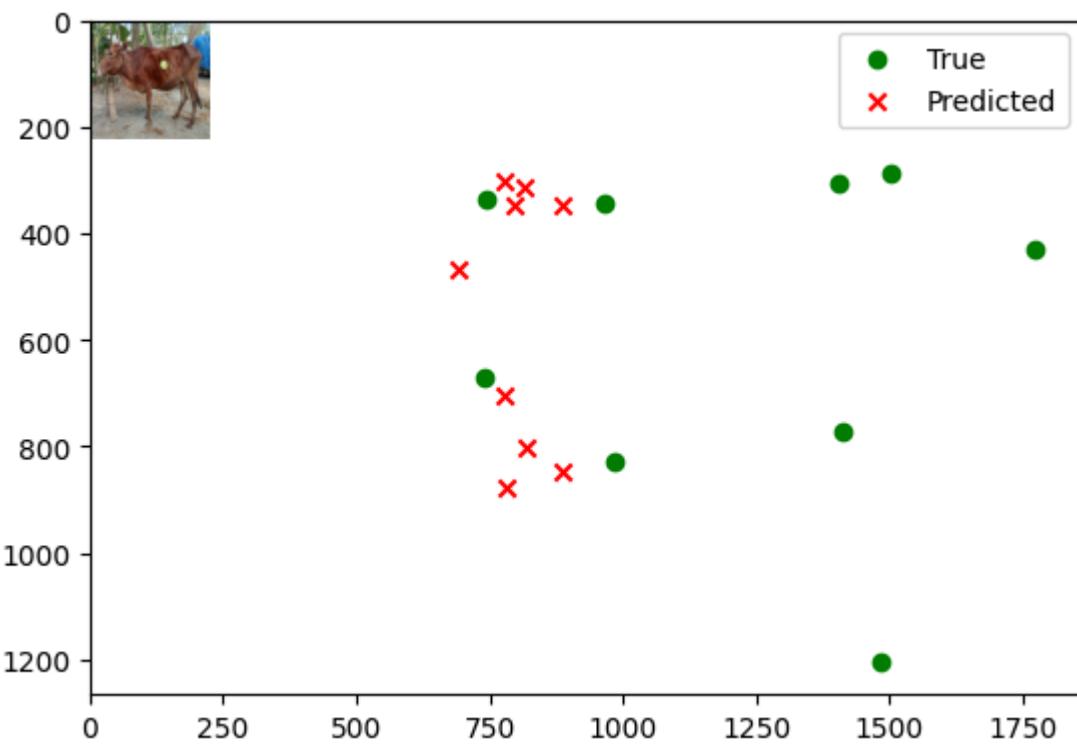


Image number: 281

True keypoints: [1159. 277. 353. 348. 1163. 574. 944. 245. 948. 685. 59. 7. 225.

610. 660. 508. 230. 560. 1172.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[766.38904 330.4969]

[660.23236 448.98245]

[748.80383 677.1887]

[848.62103 332.88678]

[849.6481 813.91125]

[781.5652 298.91577]

[784.69055 768.0276]

[744.60046 286.50037]

[749.272 839.7367]]

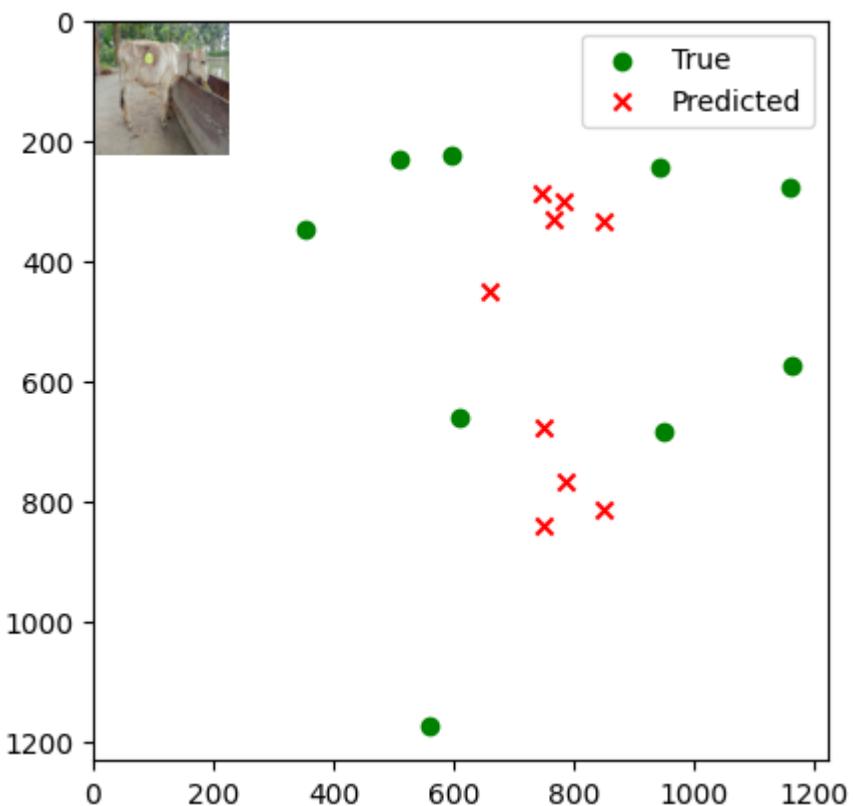


Image number: 282

True keypoints: [715. 311. 1636. 373. 674. 623. 873. 310. 901. 739. 130
9. 254.

1324. 664. 1425. 232. 1449. 1183.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[768.71747 332.7114]

[662.913 450.93912]

[750.96704 679.4129]

[851.8812 335.00165]

[853.08527 816.87634]

[784.82056 301.5909]

[788.01965 770.6917]

[747.83496 289.28595]

[752.3261 842.9233]]

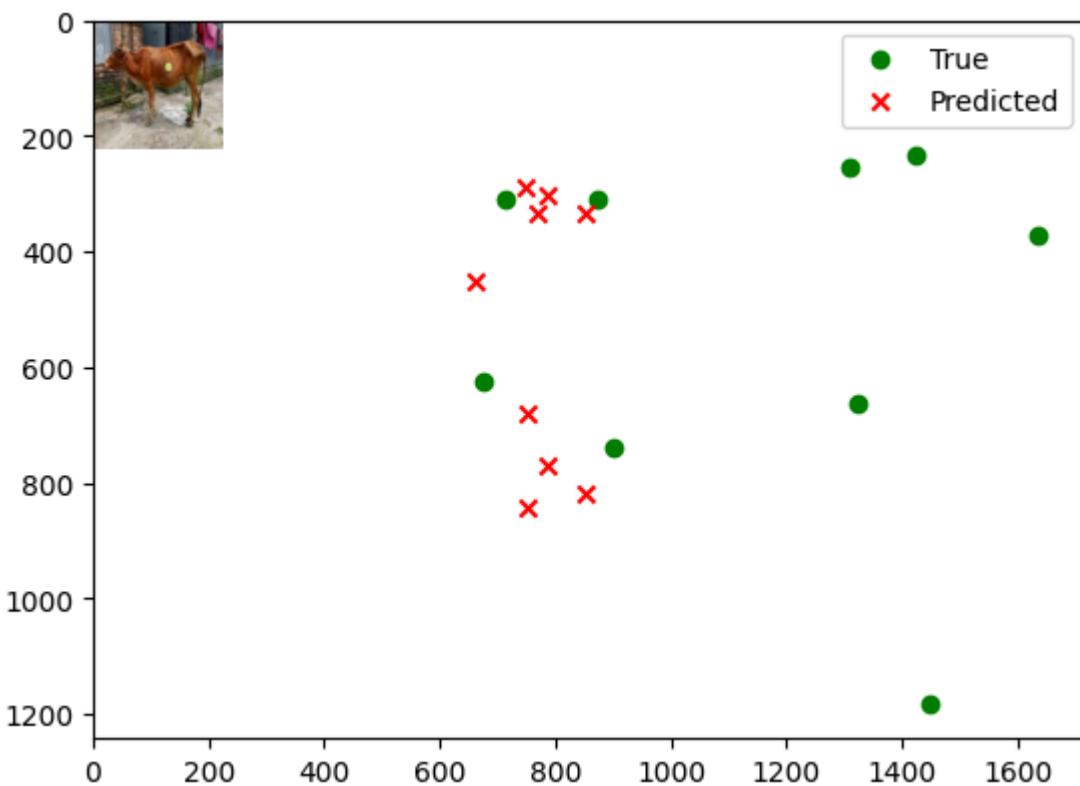


Image number: 283

True keypoints: [754. 280. 1727. 459. 708. 575. 930. 289. 933. 738. 137 8. 288.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[786.71497 340.2844]

[679.1292 461.37625]

[768.50775 695.1952]

[872.0343 342.75122]

[873.04297 836.03]

[803.5048 308.52786]

[806.7071 788.76587]

[765.7174 295.995]

[770.43066 862.8628]]

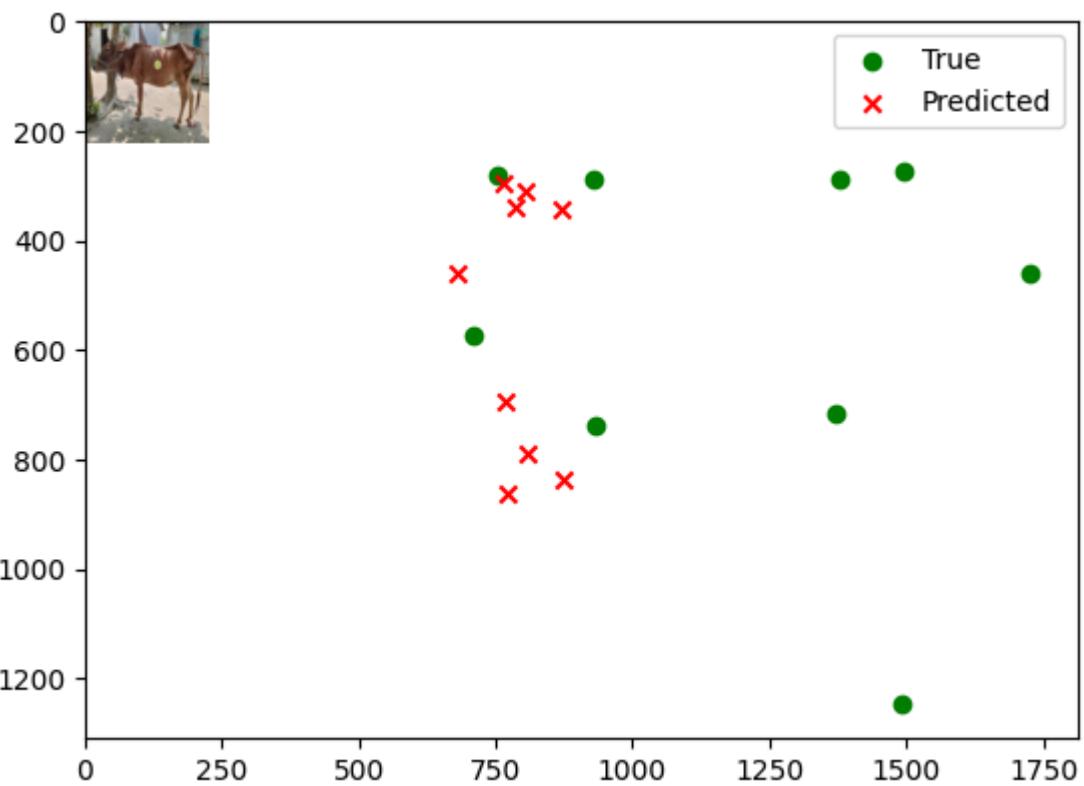


Image number: 284

True keypoints: [710. 276. 1725. 423. 646. 589. 900. 300. 916. 779. 138
3. 309.

1394. 783. 1485. 282. 1494. 1228.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[791.11255 343.35715]

[683.44336 464.53214]

[772.71625 699.27374]

[877.5244 345.74377]

[878.7075 841.1482]

[808.7482 311.9256]

[812.03577 793.5173]

[770.85144 299.47208]

[775.37994 868.29425]]

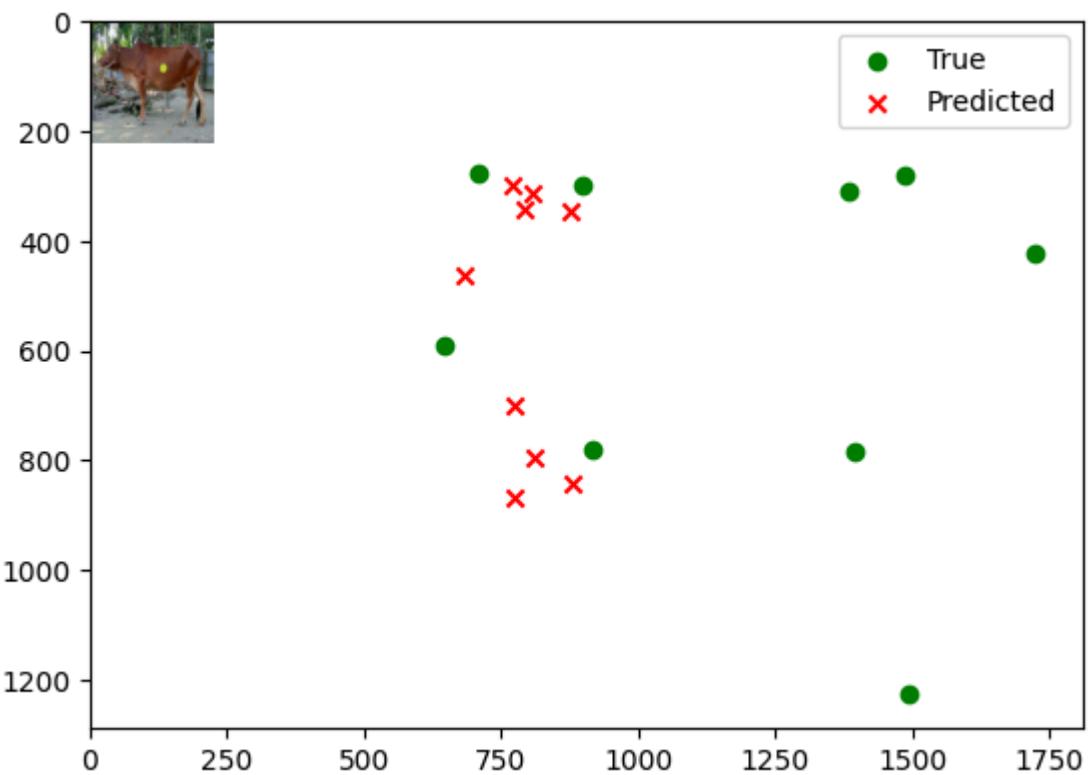


Image number: 285

True keypoints: [761. 308. 1681. 403. 742. 587. 949. 287. 944. 754. 136
4. 262.
1355. 735. 1451. 245. 1420. 1229.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[800.9258 347.47928]
[692.10565 470.19617]
[782.29736 707.9001]
[888.4266 349.9256]
[889.50586 851.5508]
[818.80804 315.61145]
[822.0939 803.3631]
[780.45135 303.0332]
[785.1126 879.0877]]

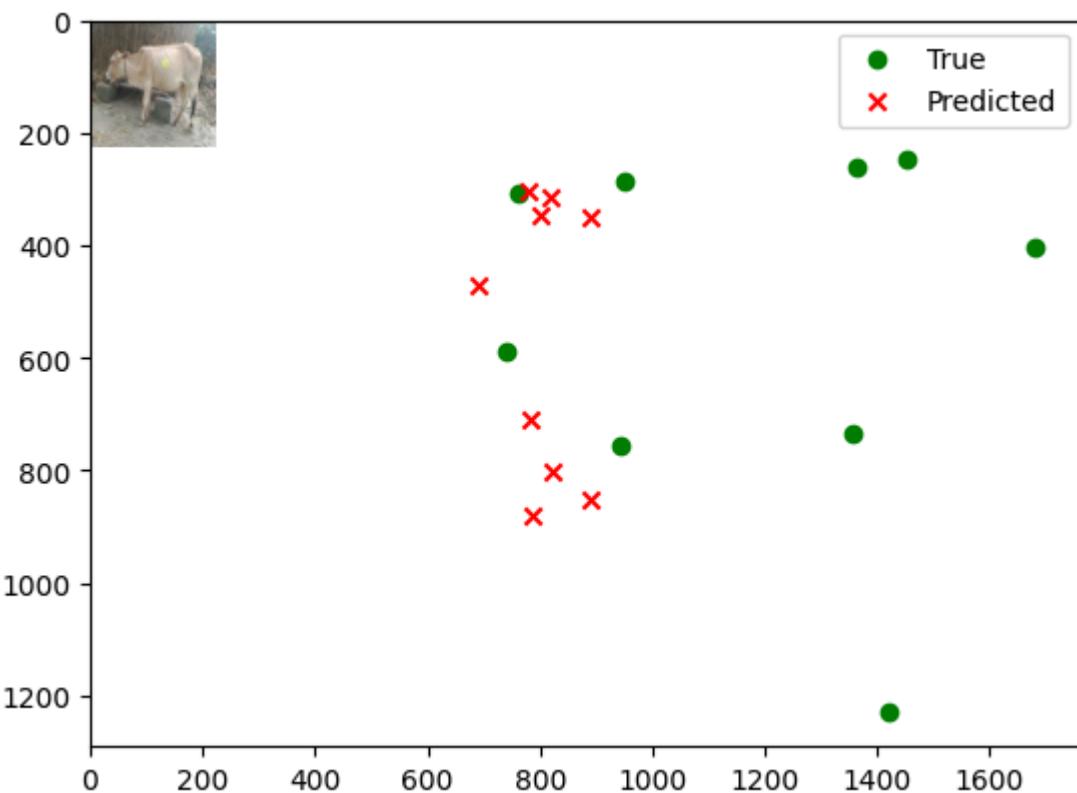


Image number: 286

True keypoints: [676. 298. 1731. 401. 676. 645. 908. 269. 941. 787. 135
4. 226.

1358. 752. 1485. 204. 1498. 1247.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[783.25696 339.151]

[676.2784 459.53204]

[765.1415 692.23065]

[868.39166 341.5882]

[869.4279 832.4868]

[800.16266 307.67343]

[803.3941 785.43066]

[762.5905 295.2304]

[767.2114 859.24426]]

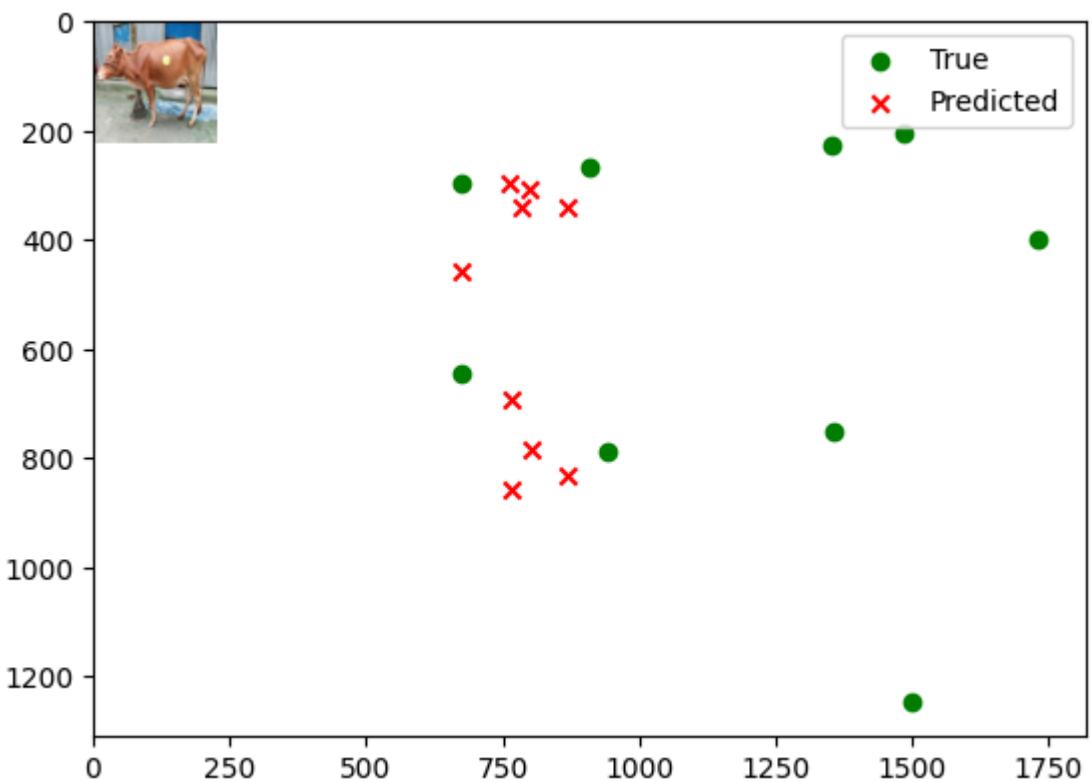


Image number: 287

True keypoints: [760. 247. 1697. 339. 752. 593. 965. 234. 985. 723. 138. 6. 206.

1397. 639. 1463. 193. 1487. 1183.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[732.62573 314.7044]

[629.6185 428.63742]

[715.9948 647.2795]

[810.2102 316.97214]

[811.25244 777.46136]

[745.7579 283.76544]

[748.79736 733.6904]

[710.2476 271.60675]

[714.8356 801.70197]]

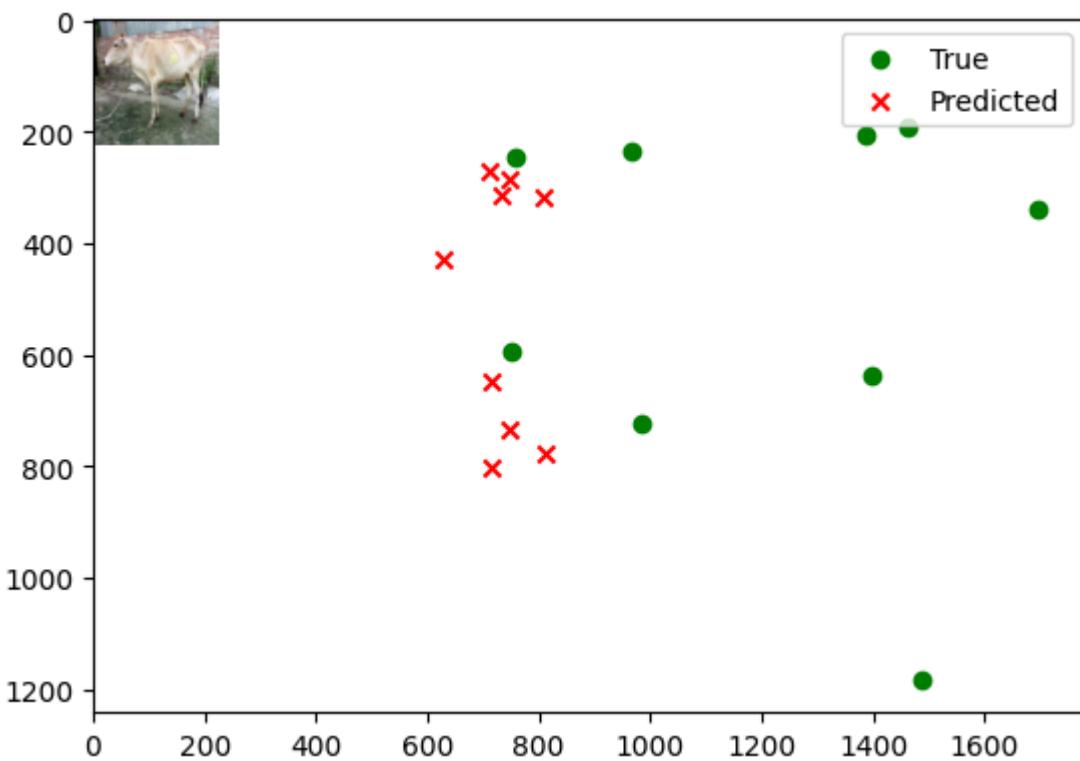


Image number: 288

True keypoints: [620. 296. 1794. 439. 685. 652. 927. 242. 947. 799. 143. 5. 241. 1435. 740. 1538. 232. 1537. 1269.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[776.7962 335.53308]

[669.8712 455.34927]

[758.8867 686.4084]

[860.59894 337.95538]

[861.6717 825.2589]

[792.8052 303.887]

[795.9641 778.63806]

[755.41473 291.41357]

[760.09436 851.5818]]

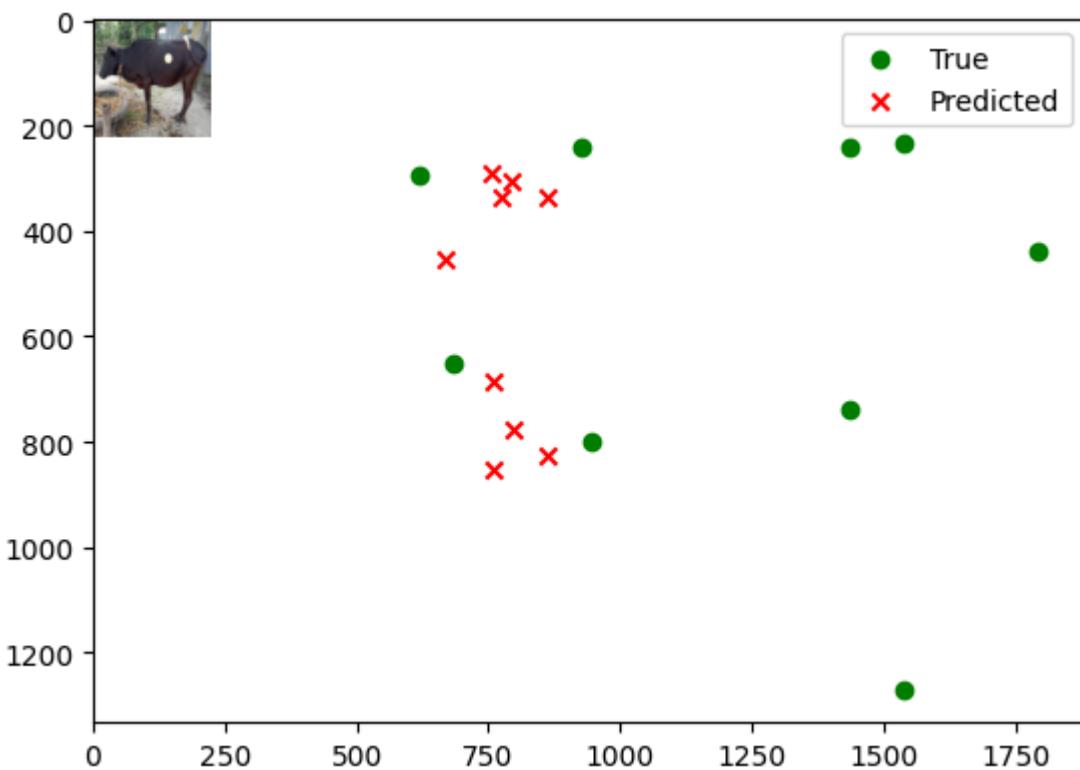


Image number: 289

True keypoints: [1279. 349. 327. 422. 1257. 656. 1084. 352. 1052. 827. 614. 284.

602. 721. 543. 280. 525. 1182.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[812.81323 353.28455]

[702.23773 477.473]

[793.91895 718.61816]

[901.7504 355.66226]

[902.7855 864.2545]

[830.9849 320.98083]

[834.32117 815.4985]

[792.0137 308.26852]

[796.7259 892.2555]]

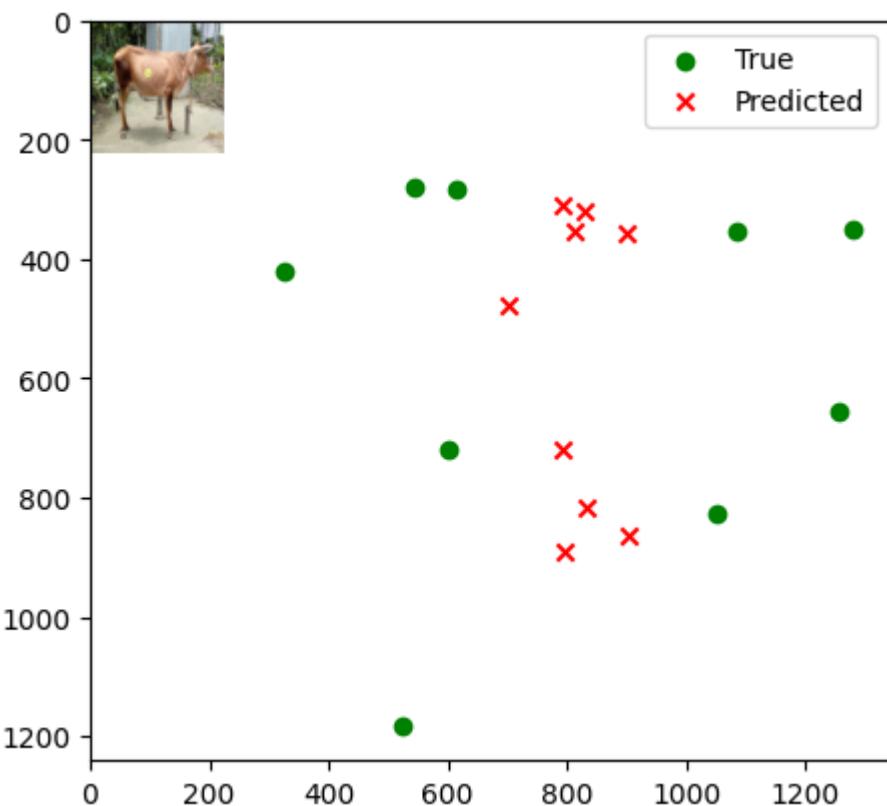


Image number: 290

True keypoints: [674. 286. 1783. 340. 695. 616. 922. 263. 933. 787. 147
9. 226.

1472. 683. 1585. 210. 1573. 1236.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[777.1724 336.40198]

[671.0554 455.95395]

[759.1891 686.8243]

[861.63477 338.8224]

[862.7008 826.01416]

[793.944 305.17645]

[797.18665 779.27075]

[756.6841 292.8098]

[761.249 852.52734]]

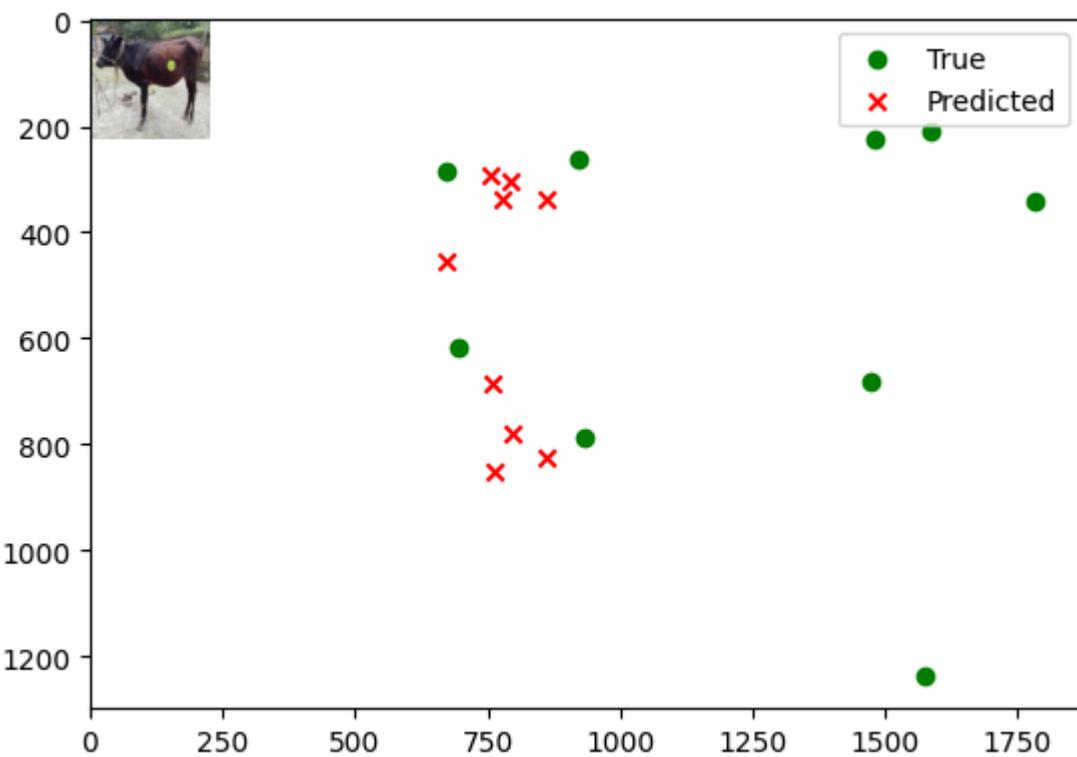


Image number: 291

True keypoints: [694. 276. 1656. 382. 689. 598. 882. 269. 920. 728. 131
6. 235.
1329. 709. 1428. 221. 1449. 1095.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[738.3902 317.5267]
[634.30023 432.18207]
[721.6167 652.4583]
[816.59406 319.7233]
[817.7869 783.64087]
[751.63965 286.38983]
[754.68225 739.5367]
[715.79517 274.19858]
[720.34216 808.04803]]

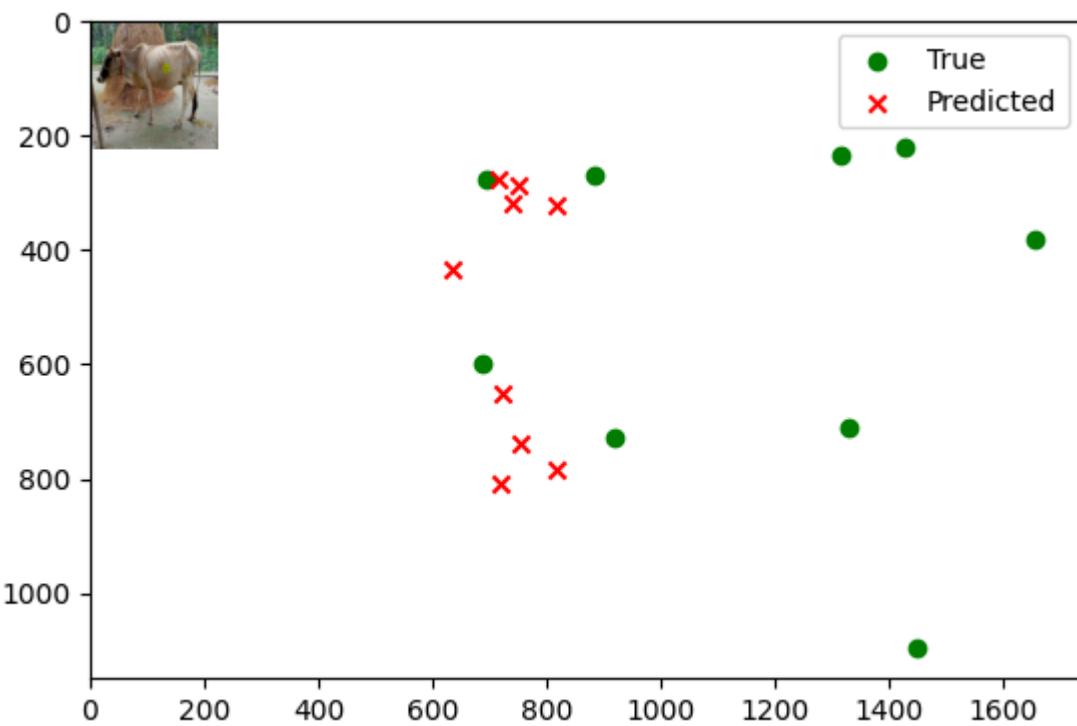


Image number: 292

True keypoints: [698. 212. 1755. 309. 752. 557. 954. 185. 986. 704. 142
3. 120.
1442. 599. 1533. 117. 1573. 1232.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[739.7595 318.92987]

[636.49426 433.38998]

[722.8634 653.7206]

[818.8103 321.16837]

[820.0267 785.5331]

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[718.22107 276.2333]

[722.6286 810.21185]]

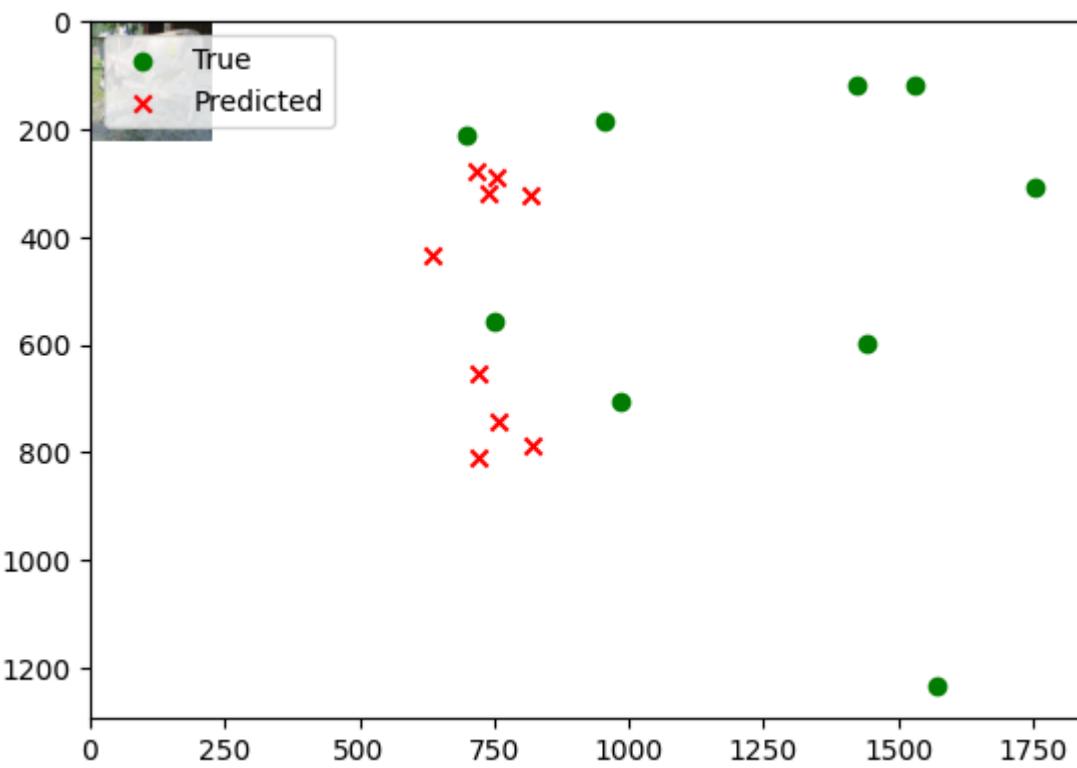


Image number: 293

True keypoints: [1169. 259. 220. 386. 1220. 573. 1004. 257. 999. 720. 55 0. 235.

565. 672. 463. 226. 486. 1233.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[766.8104 330.5446]

[659.4407 449.1553]

[749.3388 677.75867]

[848.56665 332.83853]

[849.52136 814.02026]

[781.1089 298.4529]

[784.2148 768.38995]

[743.9322 285.96875]

[748.7213 839.6627]]

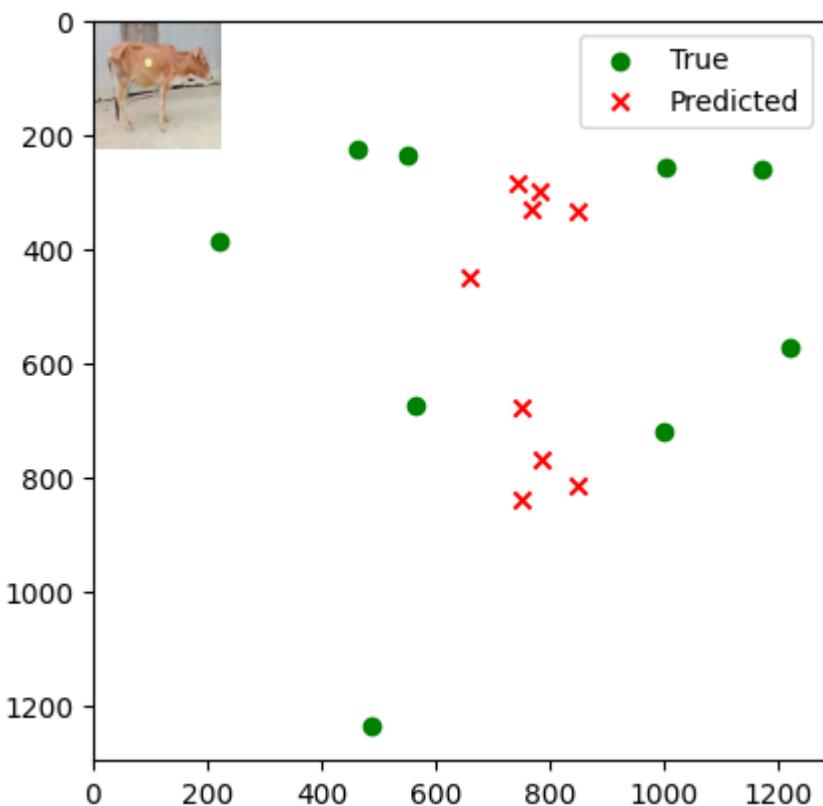


Image number: 294

True keypoints: [657. 314. 1672. 401. 685. 632. 897. 289. 915. 775. 136
6. 240.

1373. 697. 1478. 223. 1507. 1241.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[743.5729 320.19104]

[638.161 435.43]

[726.77356 657.30115]

[822.234 322.28433]

[823.3867 789.0905]

[756.5751 288.67865]

[759.65405 744.8488]

[720.3614 276.40225]

[724.94165 813.5839]]

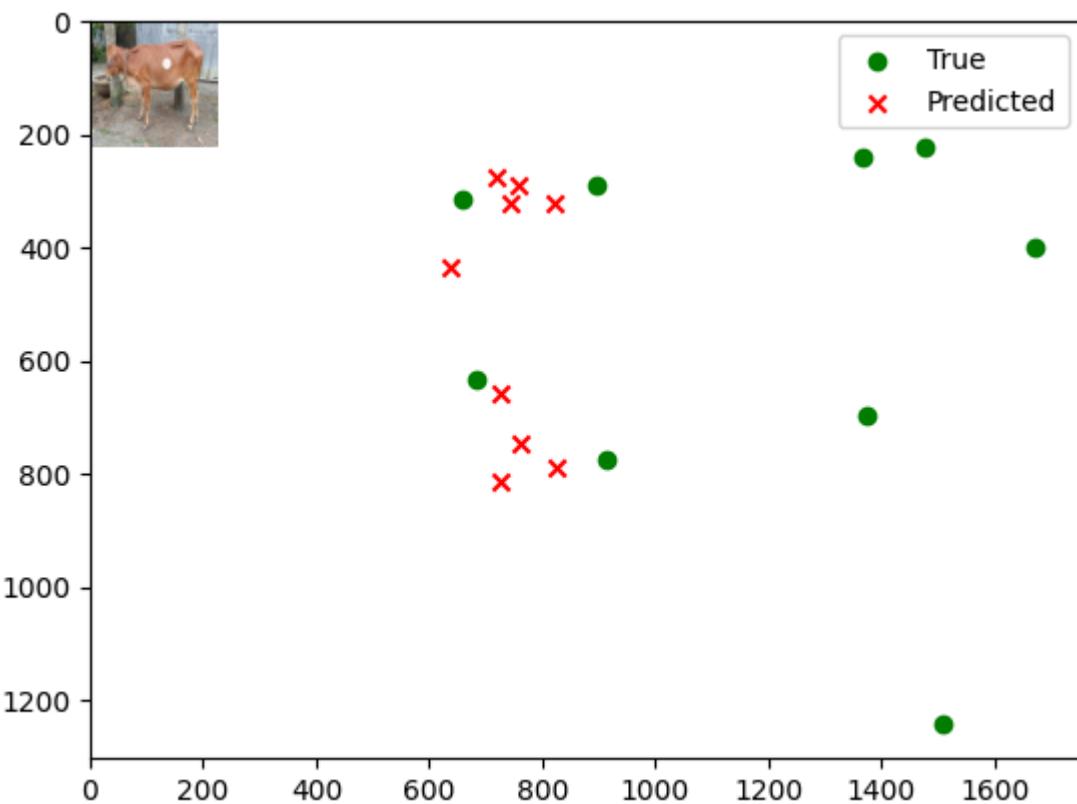


Image number: 295

True keypoints: [1195. 277. 228. 370. 1238. 602. 984. 257. 997. 753. 55
3. 223.]

567. 727. 456. 219. 491. 1279.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[759.0815 328.91052]

[654.74615 445.52344]

[741.55304 670.98486]

[841.47473 331.1902]

[842.7175 806.77496]

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[738.7967 286.29422]

[743.0949 832.5934]]

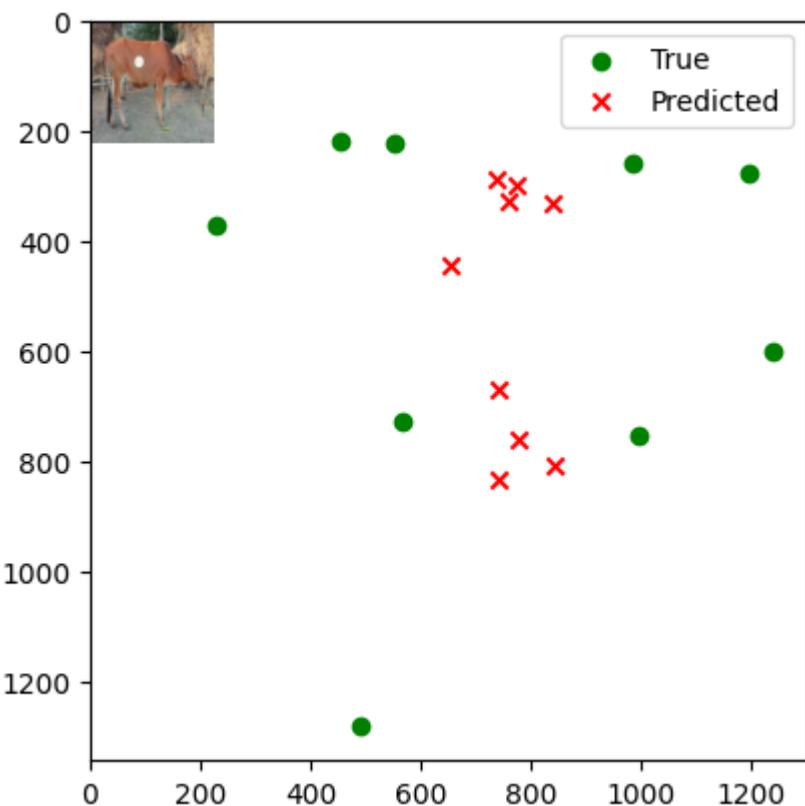


Image number: 296

True keypoints: [1315. 437. 483. 516. 1291. 721. 1103. 424. 1094. 834. 74. 6. 382.

751. 789. 674. 374. 677. 1245.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[830.27185 362.89484]

[716.83215 488.7516]

[810.99286 734.71545]

[921.6041 364.98465]

[922.6914 883.1249]

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[852.5028 833.6304]

[809.11316 317.30215]

[813.7613 911.81384]]

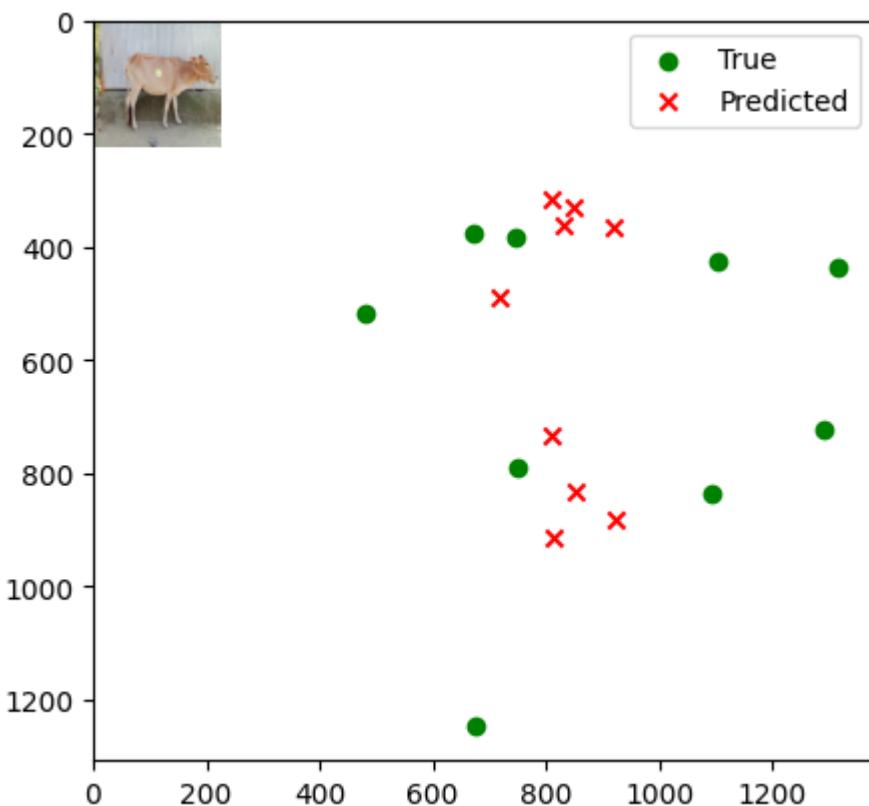


Image number: 297

True keypoints: [734. 338. 1725. 424. 725. 668. 933. 318. 952. 819. 141
7. 252.

1425. 719. 1498. 244. 1540. 1301.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[815.9802 355.0449]

[706.0305 479.52206]

[796.8883 721.3143]

[905.8187 357.48428]

[906.9156 867.99414]

[835.08374 323.08597]

[838.4362 818.8052]

[796.11206 310.42334]

[800.7697 896.2894]]

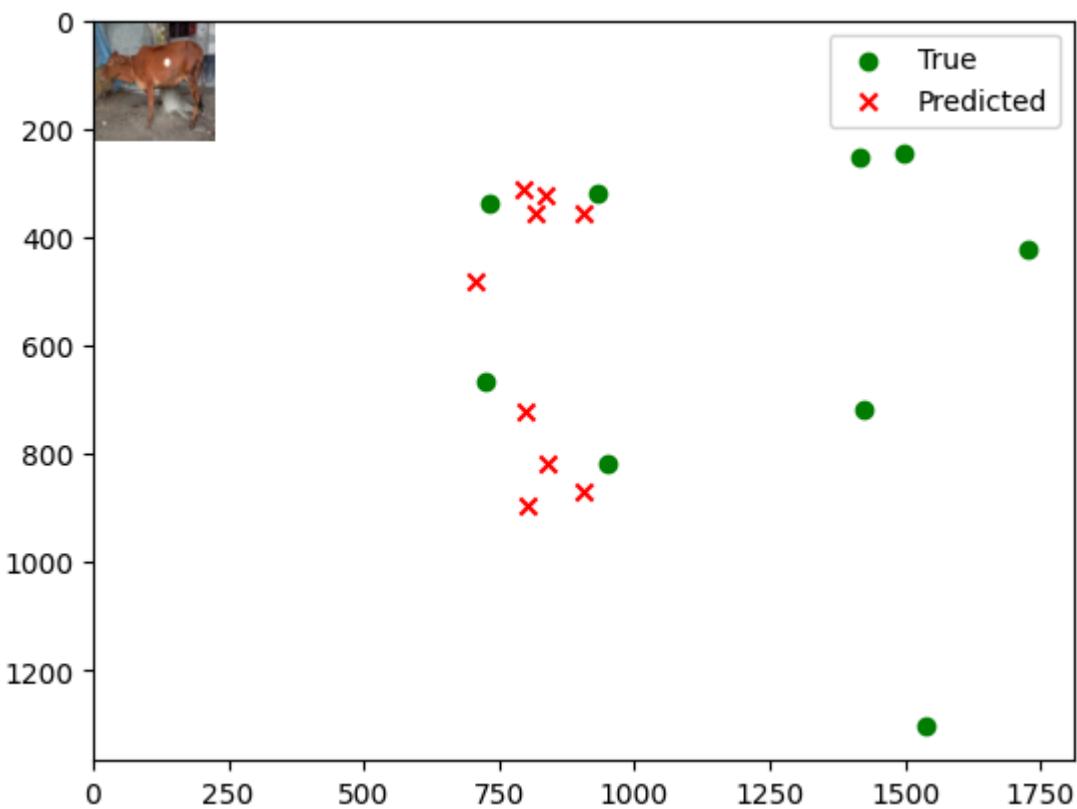


Image number: 298

True keypoints: [652. 361. 1614. 474. 586. 653. 851. 375. 851. 822. 131
2. 329.

1320. 758. 1403. 324. 1413. 1211.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[824.7597 360.15674]

[714.6783 485.34677]

[805.3479 729.2653]

[916.47656 362.58047]

[917.6244 877.867]

[845.17126 328.49493]

[848.6437 828.0885]

[805.95605 315.88788]

[810.44025 906.80164]]

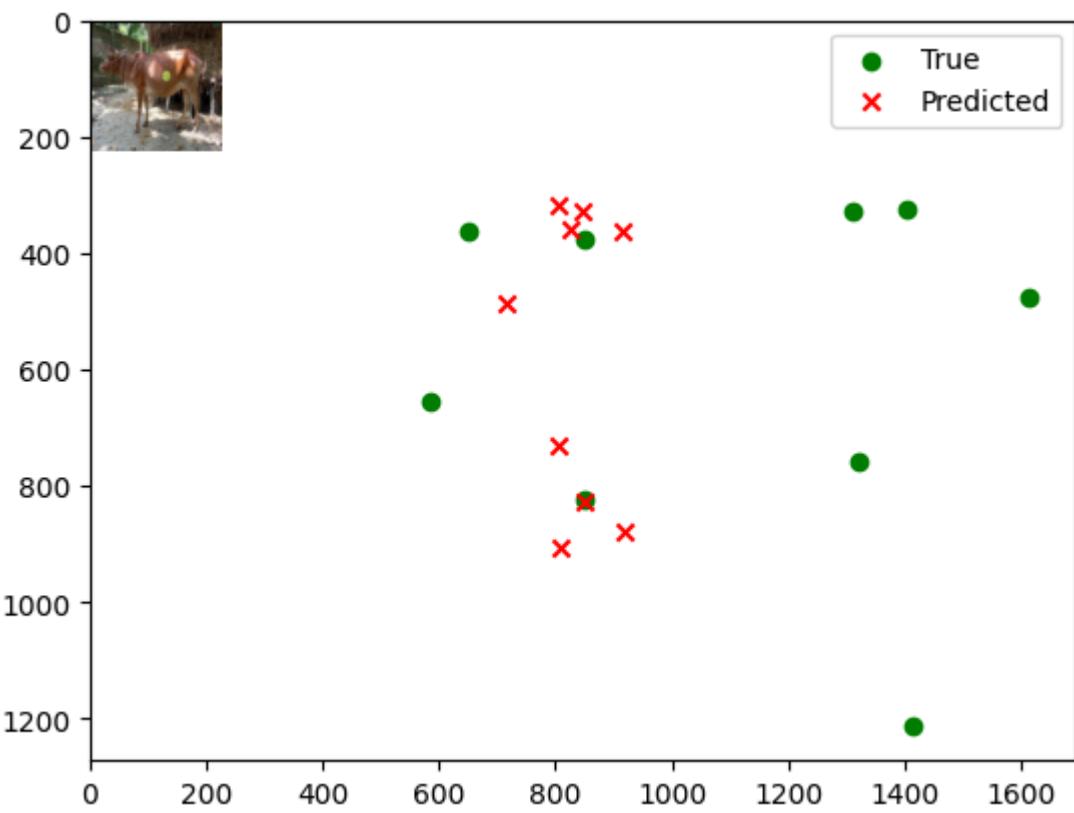


Image number: 299

True keypoints: [683. 255. 1672. 393. 686. 572. 912. 249. 911. 722. 137
9. 236.

1370. 649. 1455. 224. 1454. 1227.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[750.83575 324.00977]

[645.0594 440.07465]

[733.8521 663.91797]

[830.80914 326.1019]

[831.80145 797.06036]

[764.5176 292.47128]

[767.6745 752.4319]

[728.05664 280.1833]

[732.6431 821.99414]]

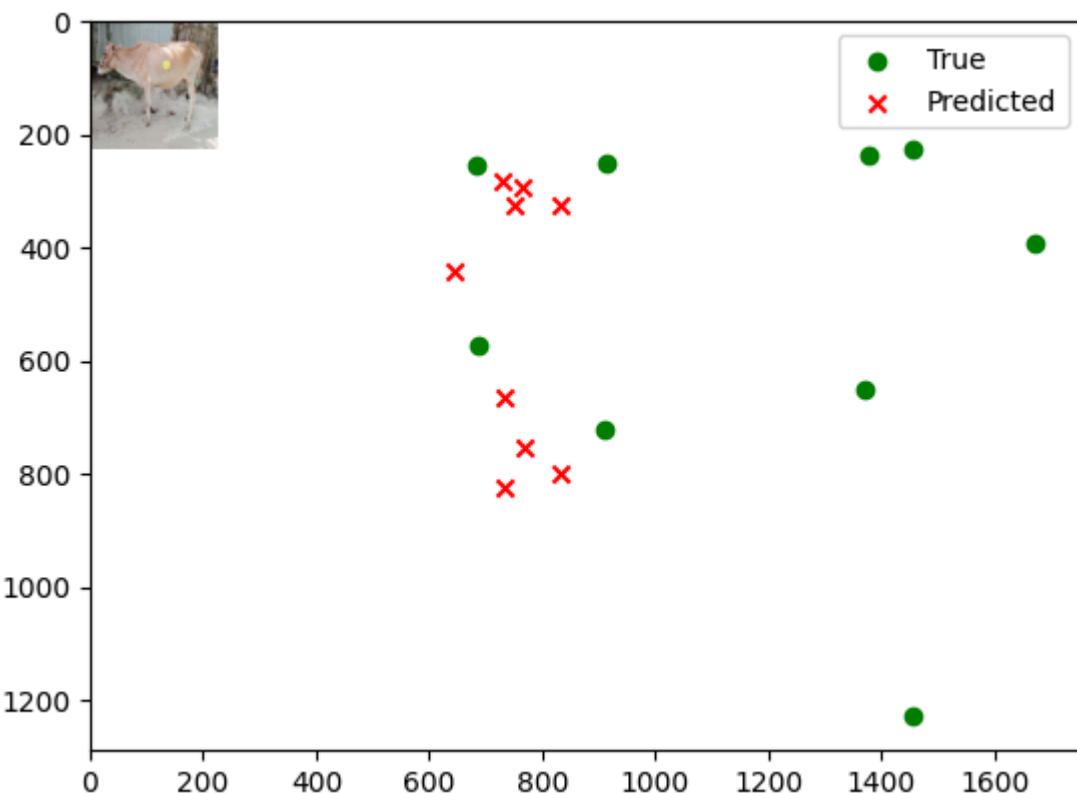


Image number: 300

True keypoints: [1136. 300. 237. 391. 1143. 624. 909. 286. 906. 766. 49
5. 261.

508. 708. 425. 257. 452. 1155.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[788.6333 342.24738]

[678.4475 463.09268]

[770.62085 697.6454]

[873.6089 344.28745]

[874.65796 837.7778]

[804.13855 309.80762]

[807.44226 790.92535]

[765.9167 297.19678]

[770.5934 864.3422]]

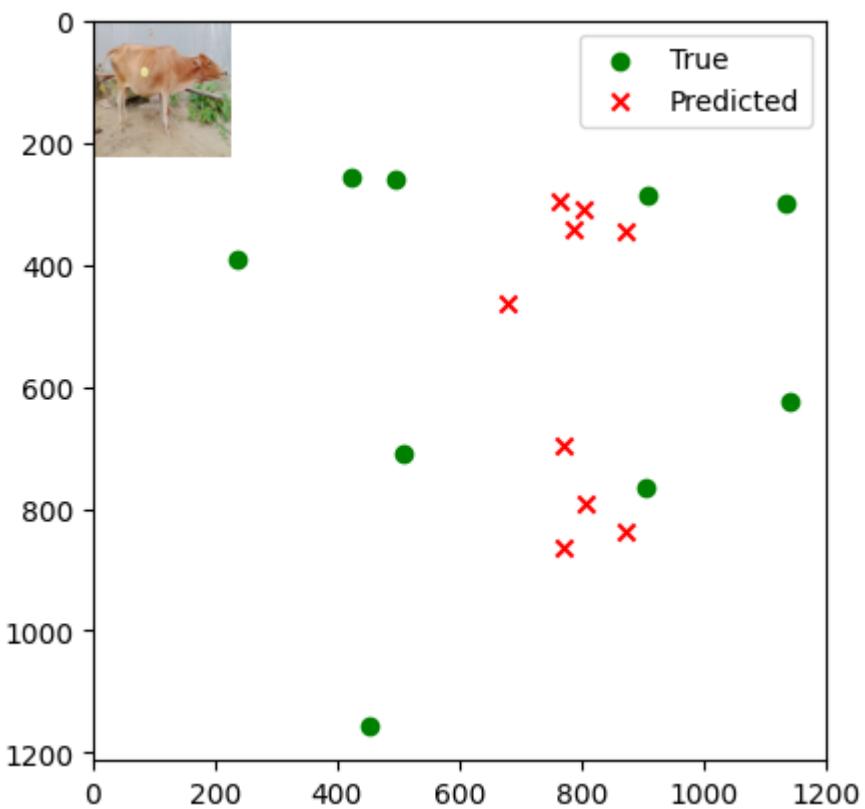


Image number: 301

True keypoints: [1219. 332. 363. 429. 1270. 664. 1042. 363. 1048. 809. 64. 6. 300.

655. 749. 535. 286. 552. 1245.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[762.4528 330.72974]

[653.4202 447.73703]

[745.28107 674.86346]

[843.57745 332.42853]

[844.7625 809.4052]

[775.7676 298.55228]

[779.07043 764.4431]

[738.46765 286.15567]

[742.96655 834.5073]]

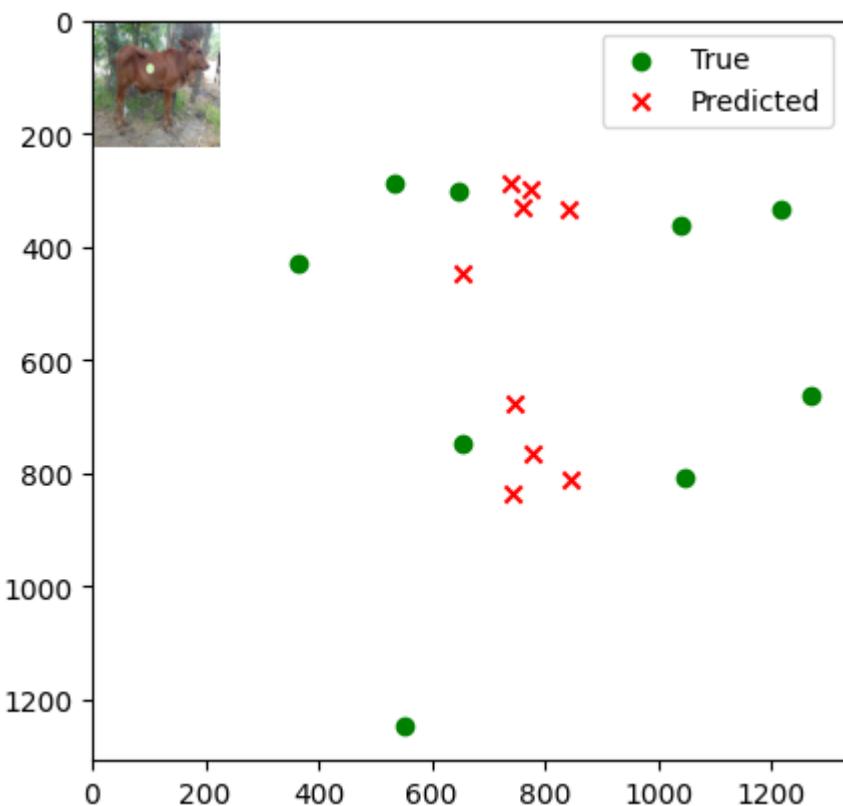


Image number: 302

True keypoints: [677. 296. 1602. 445. 640. 606. 852. 299. 856. 758. 1318. 286.]

1305. 707. 1400. 269. 1375. 1247.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [

[685.3293 465.82996]

[774.37494 700.89276]

[879.8142 347.0152]

[881.01263 843.21375]

[810.94055 313.39255]

[814.2907 795.4558]

[773.0291 300.9925]

[777.48956 870.5381]

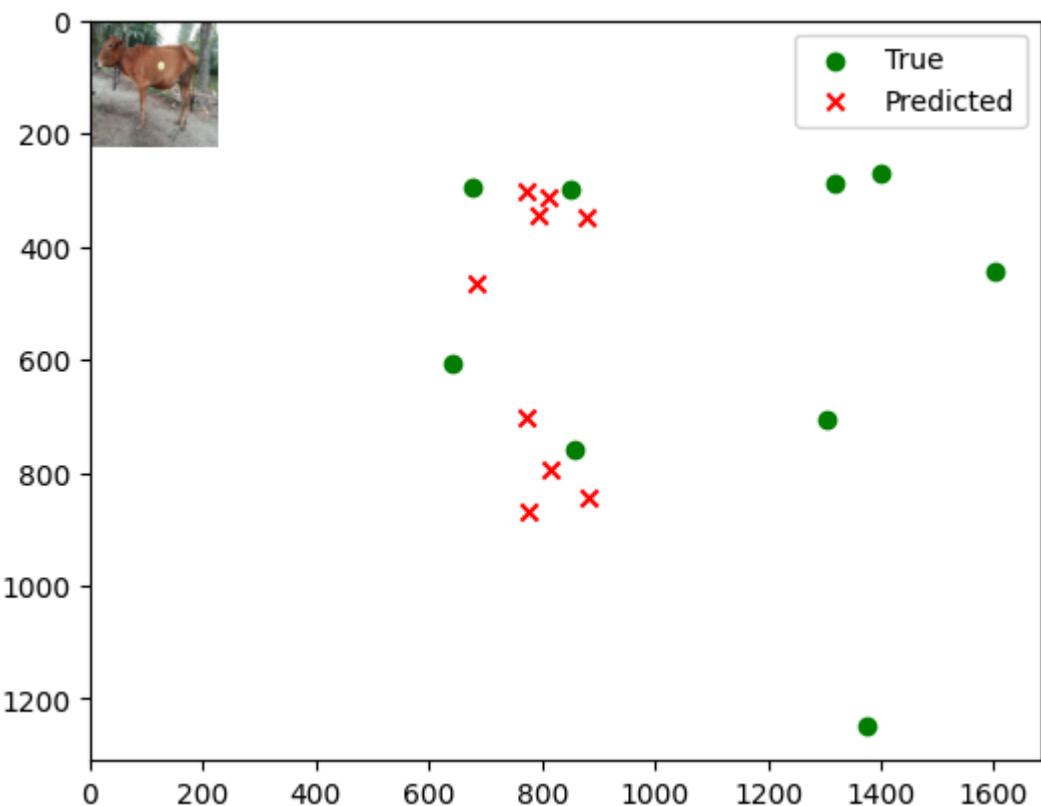


Image number: 303

True keypoints: [623. 299. 1752. 383. 636. 637. 879. 256. 894. 794. 138
8. 230.

1392. 765. 1510. 215. 1507. 1267.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[760.5738 328.26312]

[655.5502 445.73187]

[743.1007 672.06885]

[842.417 330.62634]

[843.5381 807.9381]

[775.9692 297.14407]

[779.11304 762.2511]

[739.3572 284.8458]

[743.9281 833.5642]]

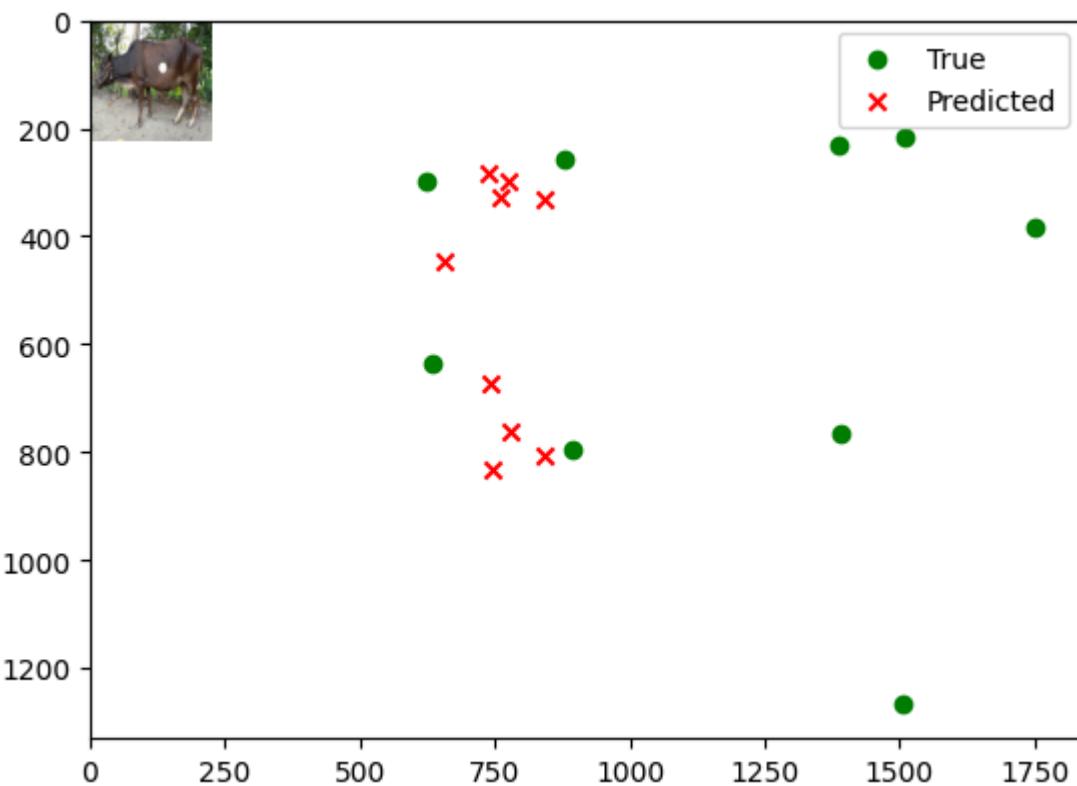


Image number: 304

True keypoints: [702. 292. 1740. 405. 656. 659. 929. 302. 953. 809. 1425. 268.

1427. 737. 1514. 248. 1518. 1270.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[783.5541 338.48328]

[675.8808 459.31274]

[765.48425 692.36707]

[868.18286 340.9488]

[869.2281 832.49005]

[799.8257 306.60492]

[802.9849 785.4468]

[762.13293 294.0567]

[766.865 859.0818]]

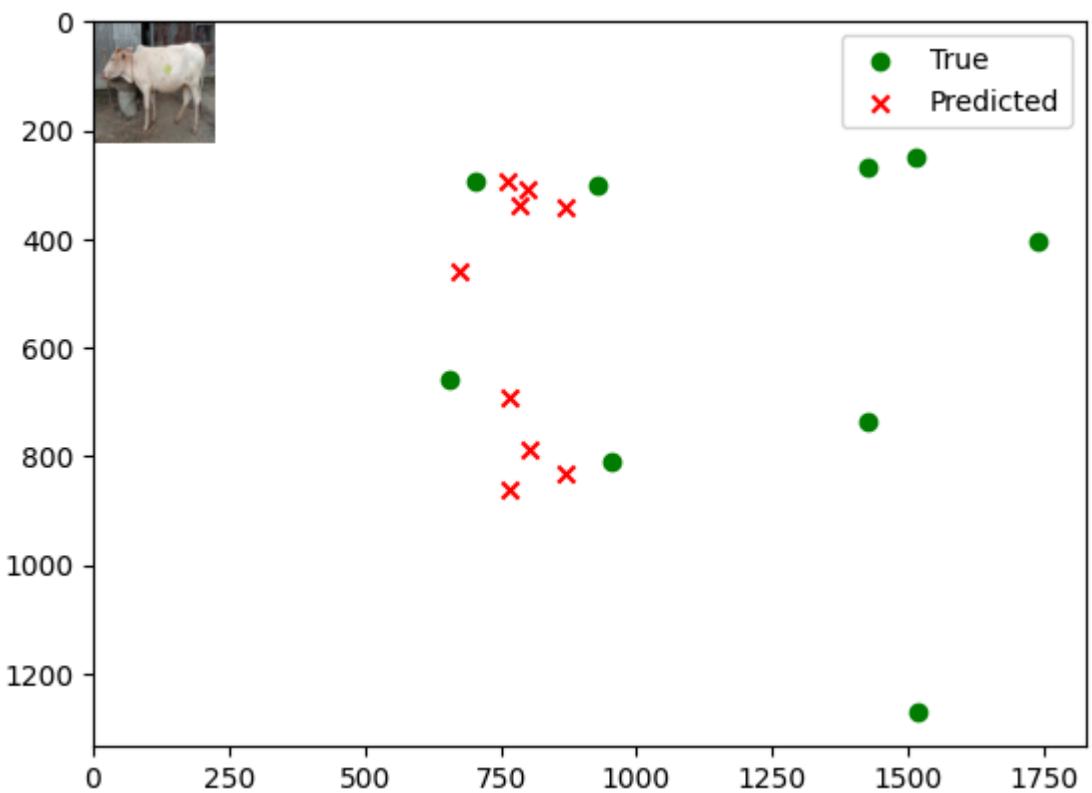


Image number: 305

True keypoints: [613. 386. 1641. 441. 623. 715. 820. 378. 852. 867. 131
5. 361.
1330. 774. 1430. 359. 1454. 1355.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[818.8175 356.51868]

[708.9376 481.334]

[799.63043 723.8577]

[909.24426 359.01758]

[910.2586 871.11536]

[838.3077 324.63]

[841.69116 821.8037]

[799.2934 311.97977]

[803.9279 899.67096]]

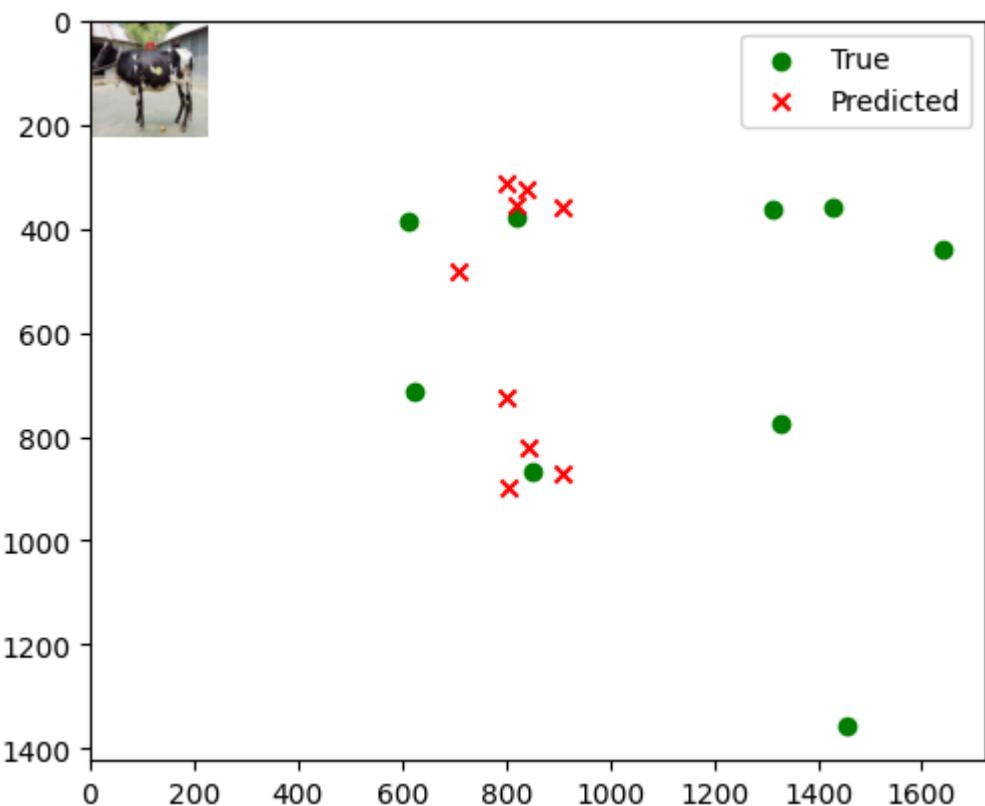


Image number: 306

True keypoints: [764. 299. 1736. 331. 649. 630. 889. 280. 906. 794. 142. 5. 231.

1417. 717. 1485. 222. 1457. 1252.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[763.1998 330.30417]

[657.96277 447.73782]

[745.6111 674.5762]

[845.69824 332.57037]

[846.95105 810.98096]

[779.0791 299.38562]

[782.28076 765.1424]

[742.36884 287.17792]

[746.78046 836.8019]]

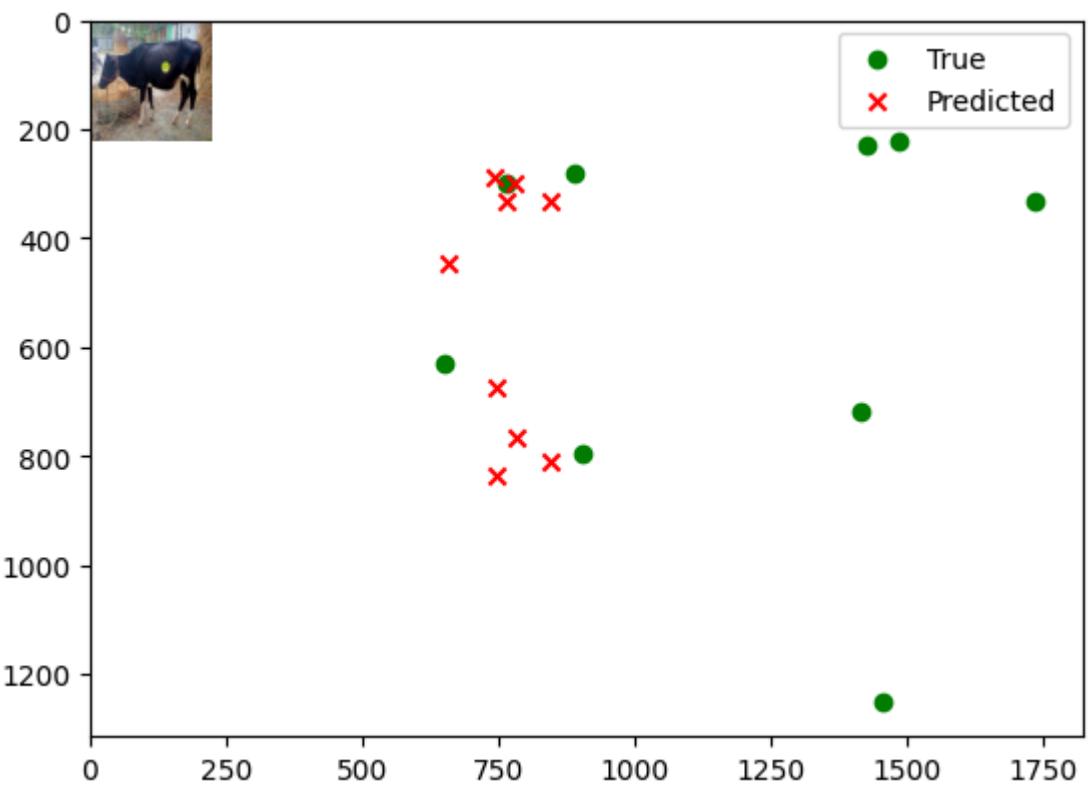


Image number: 307

True keypoints: [675. 296. 1592. 407. 636. 631. 836. 312. 842. 789. 1280. 294. 1284. 748. 1364. 275. 1380. 1194.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[803.6856 348.85425]
[694.76086 471.90988]
[784.97833 710.33746]
[891.64343 351.32443]
[892.7537 854.5852]
[821.8512 317.05432]
[825.1639 806.18506]
[783.42444 304.4458]
[788.05884 882.26807]]

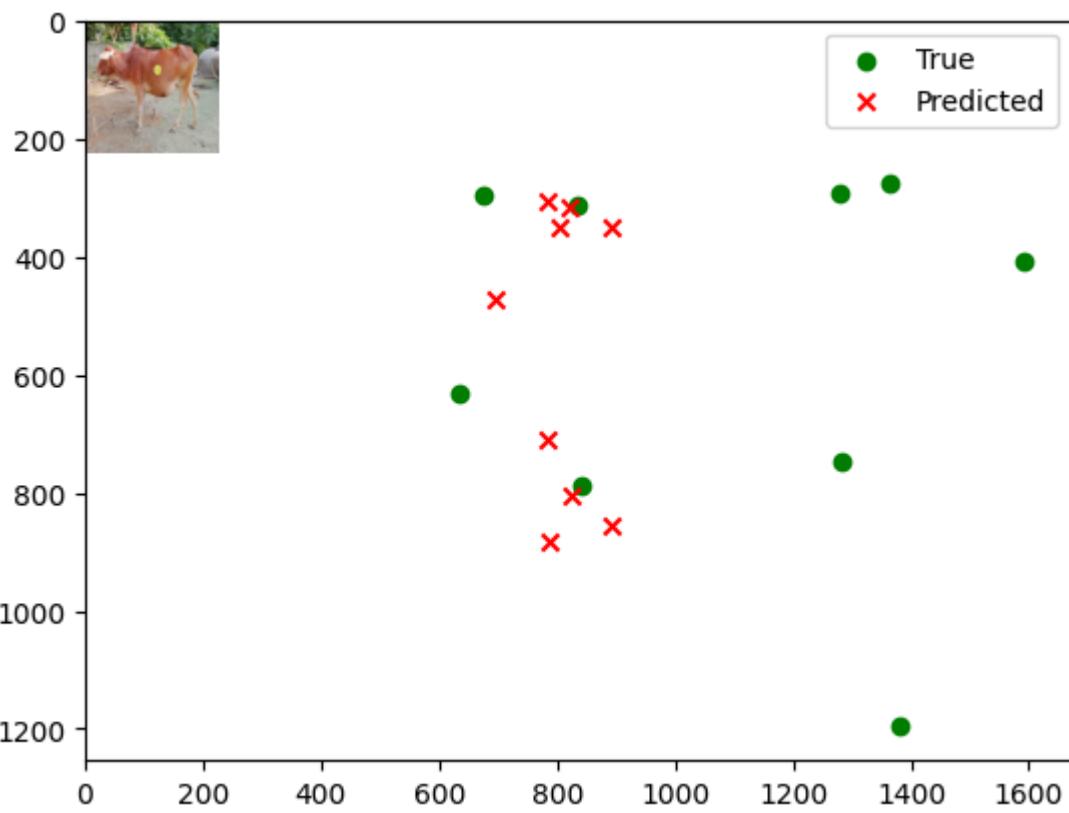


Image number: 308

True keypoints: [693. 296. 1739. 494. 641. 661. 884. 307. 893. 837. 141
1. 292.

1405. 788. 1512. 288. 1524. 1359.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[800.2357 347.30484]

[691.9019 469.8694]

[781.60657 707.27704]

[887.8675 349.77536]

[888.8926 850.91595]

[818.3632 315.60577]

[821.6492 802.743]

[780.09955 303.05792]

[784.72943 878.51483]]

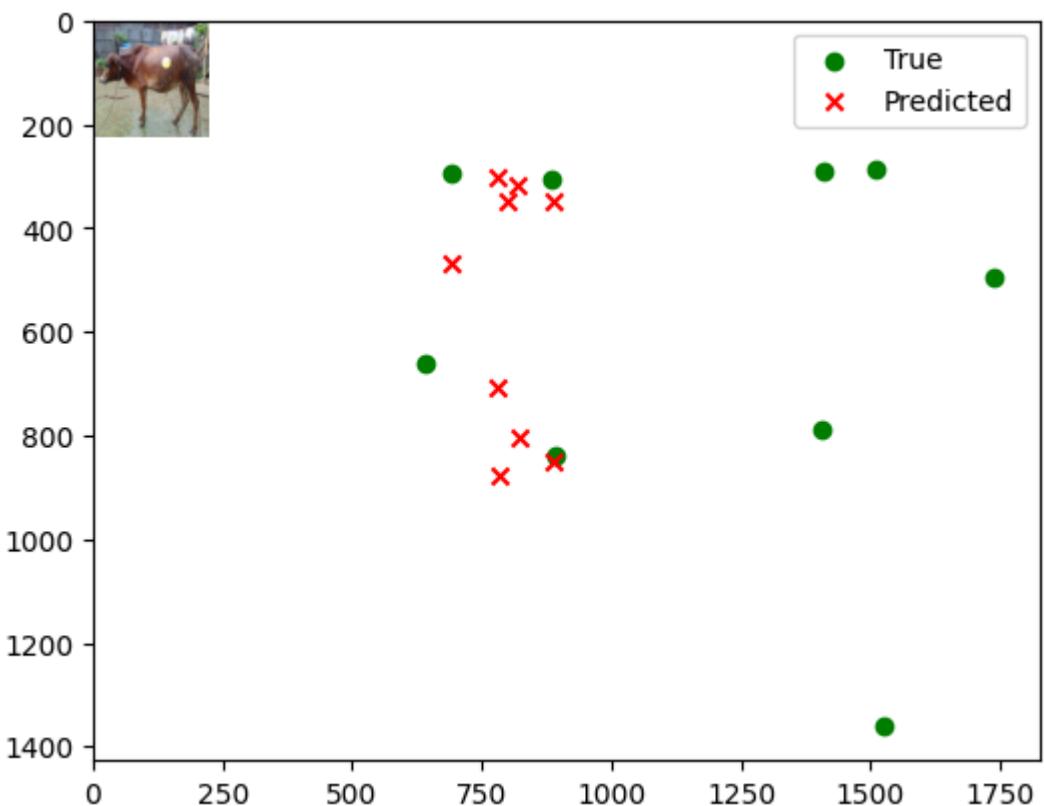


Image number: 309

True keypoints: [685. 249. 1622. 420. 660. 579. 885. 282. 893. 741. 130 0. 246.

1293. 698. 1383. 240. 1388. 1182.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[805.9719 350.149]

[697.2709 473.42566]

[787.16595 712.388]

[894.5046 352.6588]

[895.6012 857.19934]

[824.6144 318.49857]

[827.9527 808.62085]

[786.1539 305.9069]

[790.76666 885.09155]]

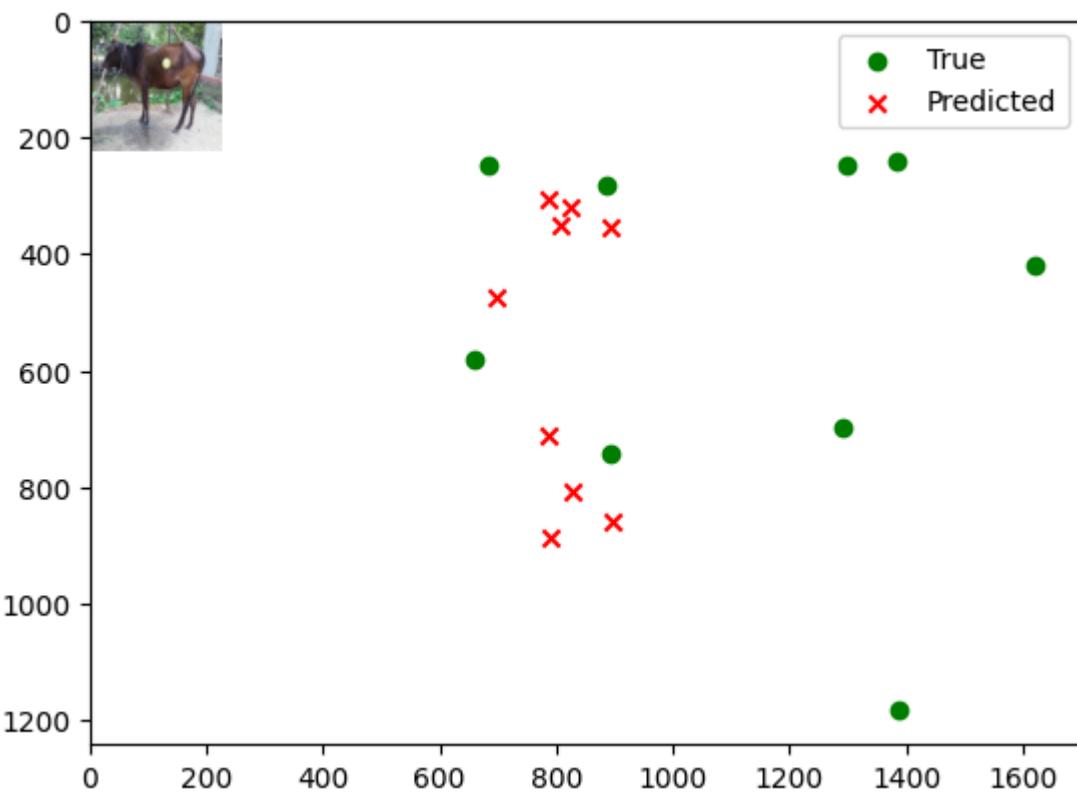


Image number: 310

True keypoints: [723. 308. 1741. 319. 713. 596. 915. 275. 929. 775. 139
3. 217.

1410. 710. 1501. 199. 1534. 1168.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[770.4392 333.28802]

[664.6732 451.8811]

[752.65924 680.8738]

[853.8645 335.66687]

[855.02527 818.7311]

[786.69556 302.17157]

[789.9073 772.4093]

[749.6949 289.8524]

[754.20374 844.89136]]

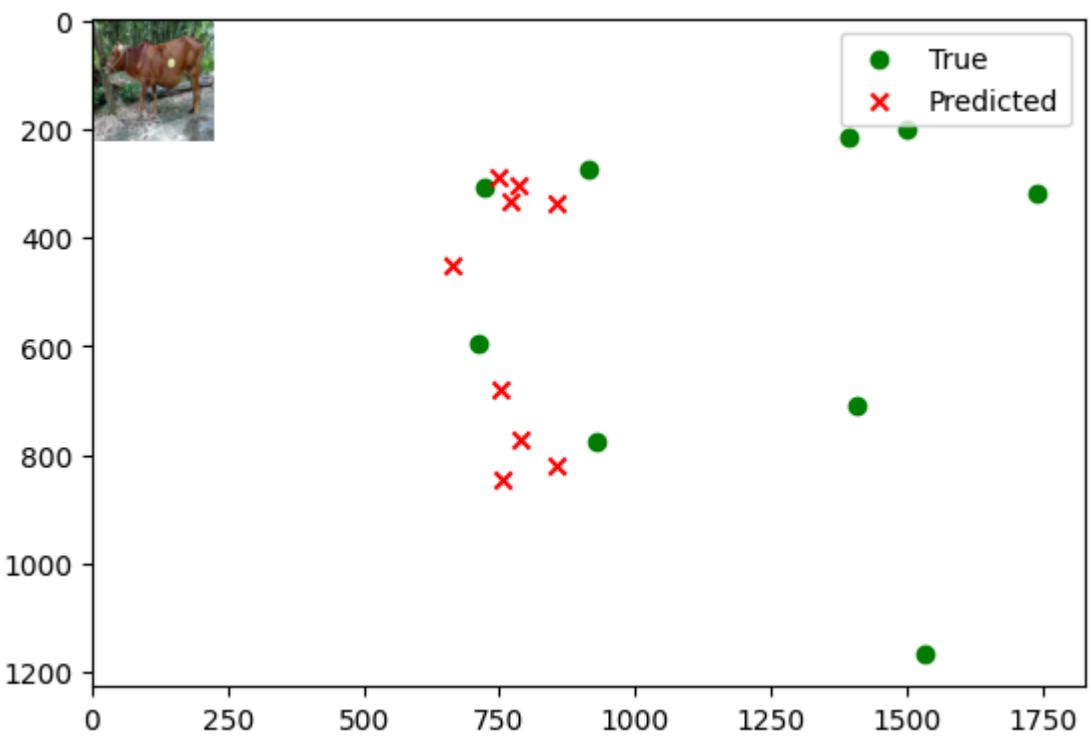


Image number: 311

True keypoints: [1191. 340. 363. 472. 1217. 671. 1011. 359. 1005. 767. 64. 1. 334.

650. 723. 585. 329. 600. 1090.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[738.4706 319.8966]

[628.10236 433.57712]

[722.3095 654.4068]

[815.03314 321.03296]

[816.14624 782.7103]

[747.9773 286.93387]

[751.28406 740.0425]

[711.13184 274.59802]

[715.655 806.07043]]

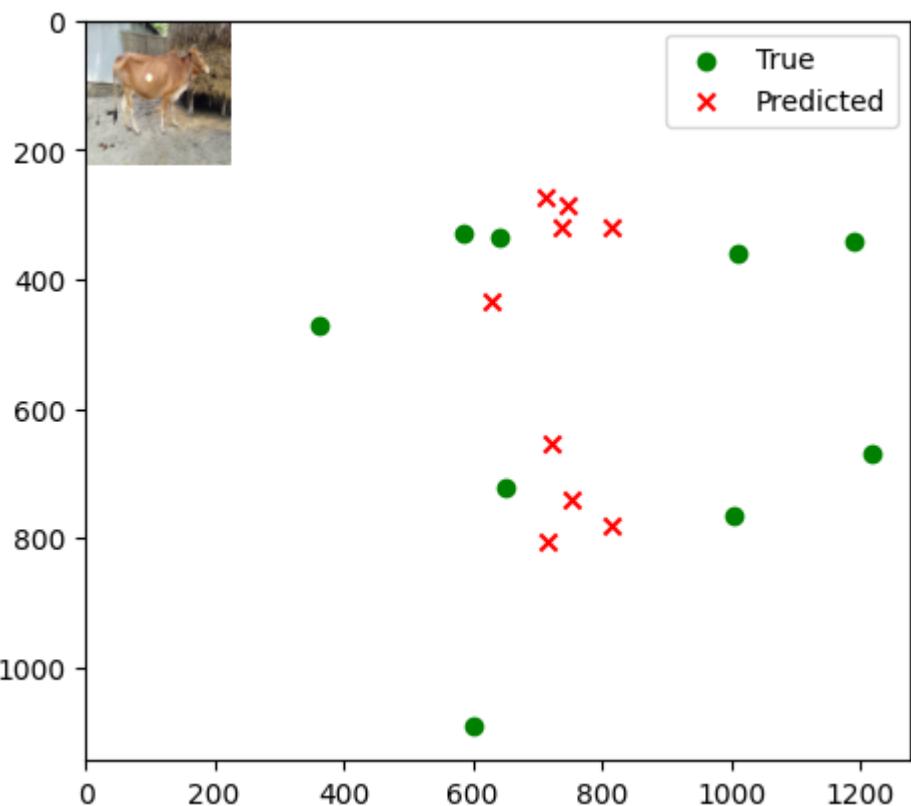


Image number: 312

True keypoints: [1098. 159. 89. 286. 1155. 547. 907. 175. 913. 694. 43. 5. 118.

457. 593. 302. 101. 364. 1160.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[669.72485 285.682]

[565.6891 391.1418]

[655.5853 593.06274]

[736.08923 286.88858]

[737.01886 707.98737]

[674.3697 253.4928]

[677.3423 669.6309]

[640.5031 241.5289]

[645.13684 728.11346]]

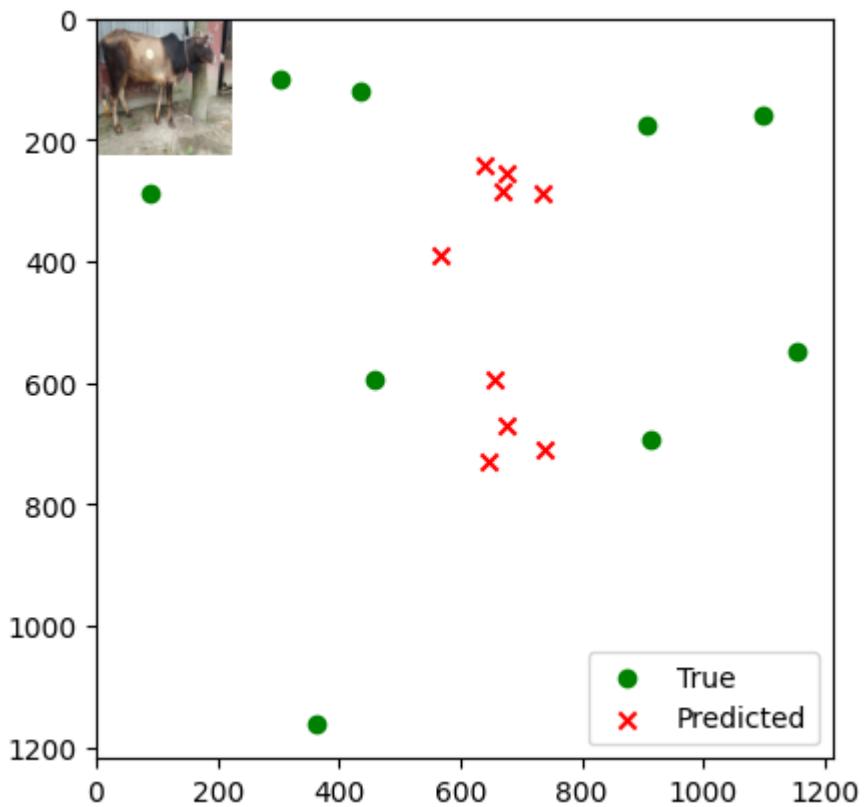


Image number: 313

True keypoints: [560. 337. 1565. 398. 612. 650. 785. 297. 810. 757. 127. 8. 274.

1277. 694. 1375. 272. 1398. 1185.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[769.8149 333.44177]

[663.65283 451.72693]

[752.0966 680.509]

[853.114 335.67926]

[854.34753 818.0603]

[785.8577 302.2768]

[789.0921 771.8723]

[748.80914 289.97635]

[753.2661 844.13055]]

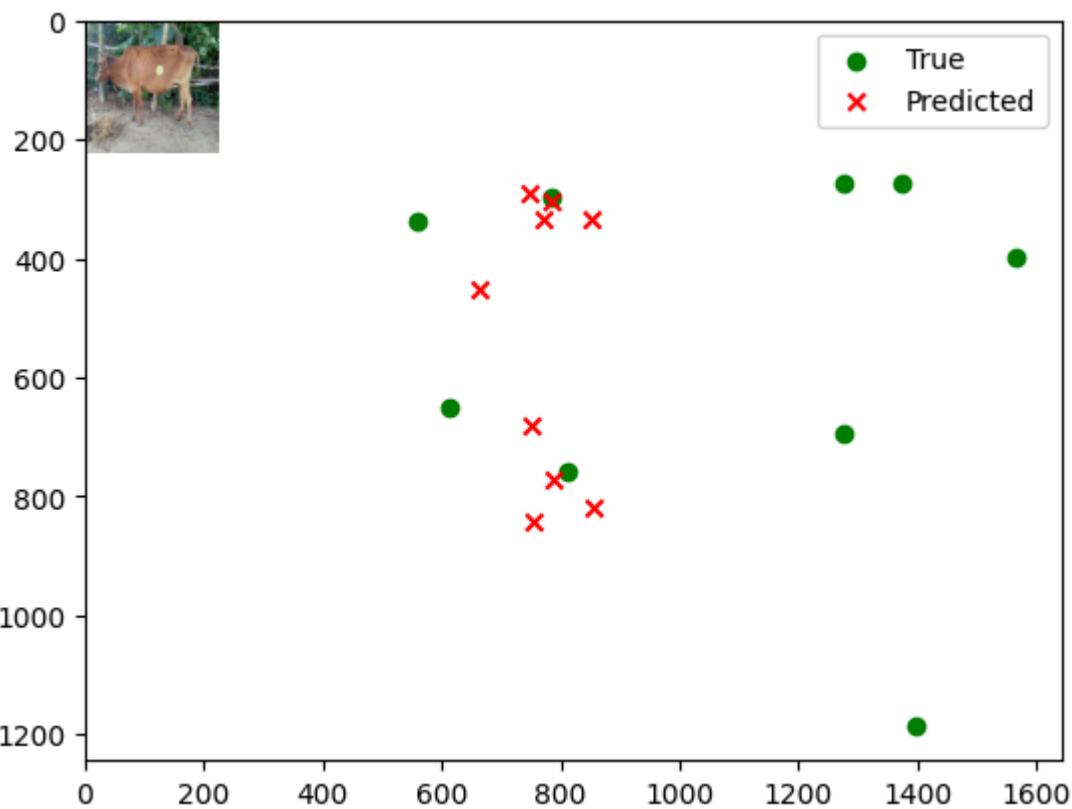


Image number: 314

True keypoints: [1235. 332. 322. 435. 1261. 666. 1032. 336. 1029. 821. 61
9. 302.

627. 767. 530. 282. 554. 1256.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[761.4253 328.8177]

[655.36237 446.30093]

[743.9917 673.0001]

[843.0428 331.03857]

[844.20087 808.6763]

[776.30365 297.37756]

[779.4251 763.103]

[739.4827 285.04935]

[744.0548 834.20105]]

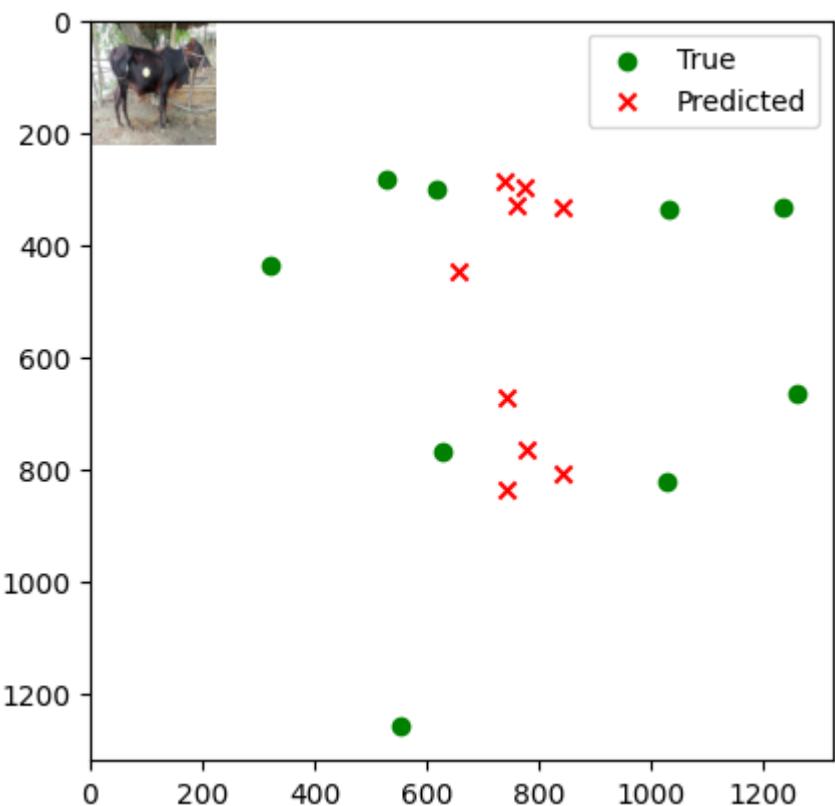


Image number: 315

True keypoints: [1141. 308. 191. 349. 1168. 618. 954. 290. 954. 774. 47 6. 231.

493. 705. 387. 218. 421. 1197.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[718.79584 310.24042]

[611.4406 421.52182]

[703.13635 636.7433]

[792.99445 311.53735]

[794.1066 761.66174]

[727.7776 278.012]

[731.0228 720.0308]

[692.00574 265.83936]

[696.48346 784.37274]]

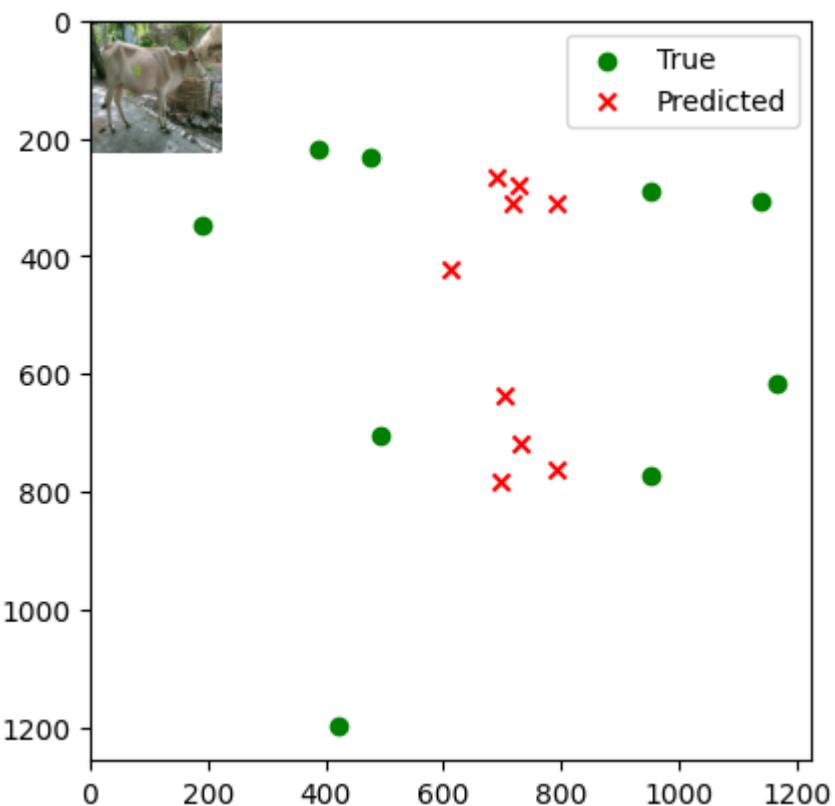


Image number: 316

True keypoints: [656. 375. 1672. 478. 650. 719. 871. 353. 882. 866. 134. 5. 318.

1351. 785. 1435. 307. 1459. 1348.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[813.4632 353.80875]

[703.3937 477.9825]

[794.48755 719.1372]

[902.7799 356.2088]

[903.8701 865.1726]

[832.1259 321.7645]

[835.48566 816.22705]

[793.2235 309.0871]

[797.8833 893.2944]]

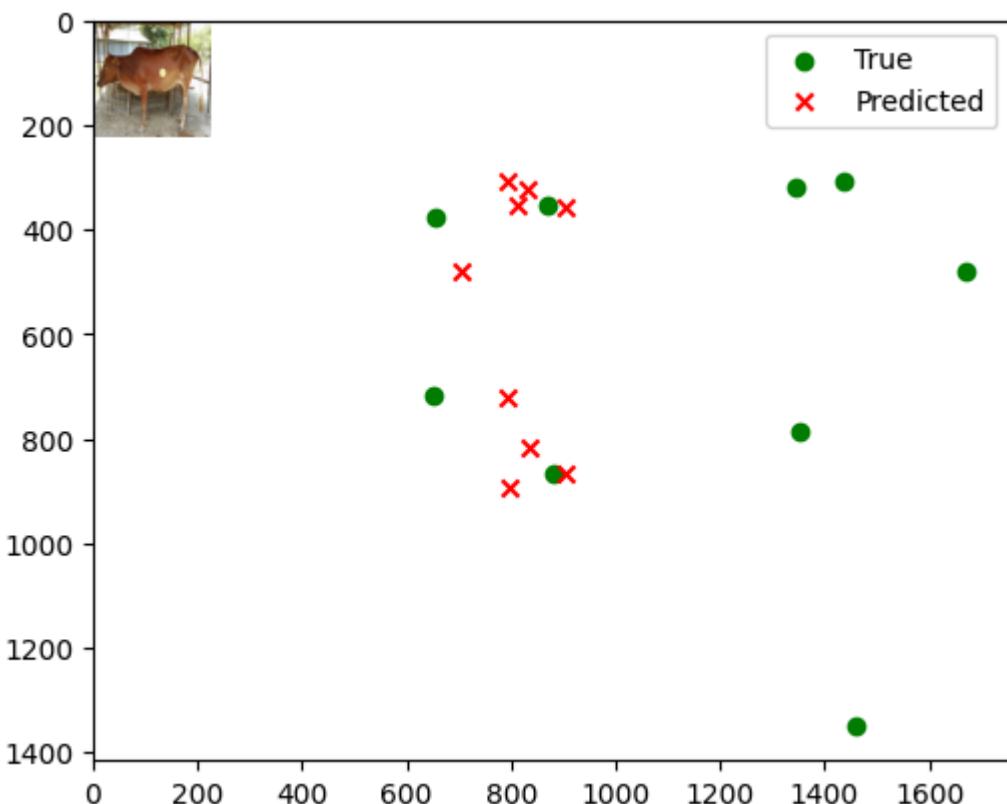


Image number: 317

True keypoints: [678. 274. 1698. 362. 665. 647. 877. 281. 897. 824. 137
2. 242.

1382. 717. 1474. 234. 1481. 1316.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[786.11224 339.75592]

[678.1748 460.88248]

[767.96765 694.6528]

[871.089 342.21283]

[872.1277 835.25073]

[802.5329 307.8482]

[805.7102 788.0605]

[764.72205 295.26263]

[769.4568 861.9704]]

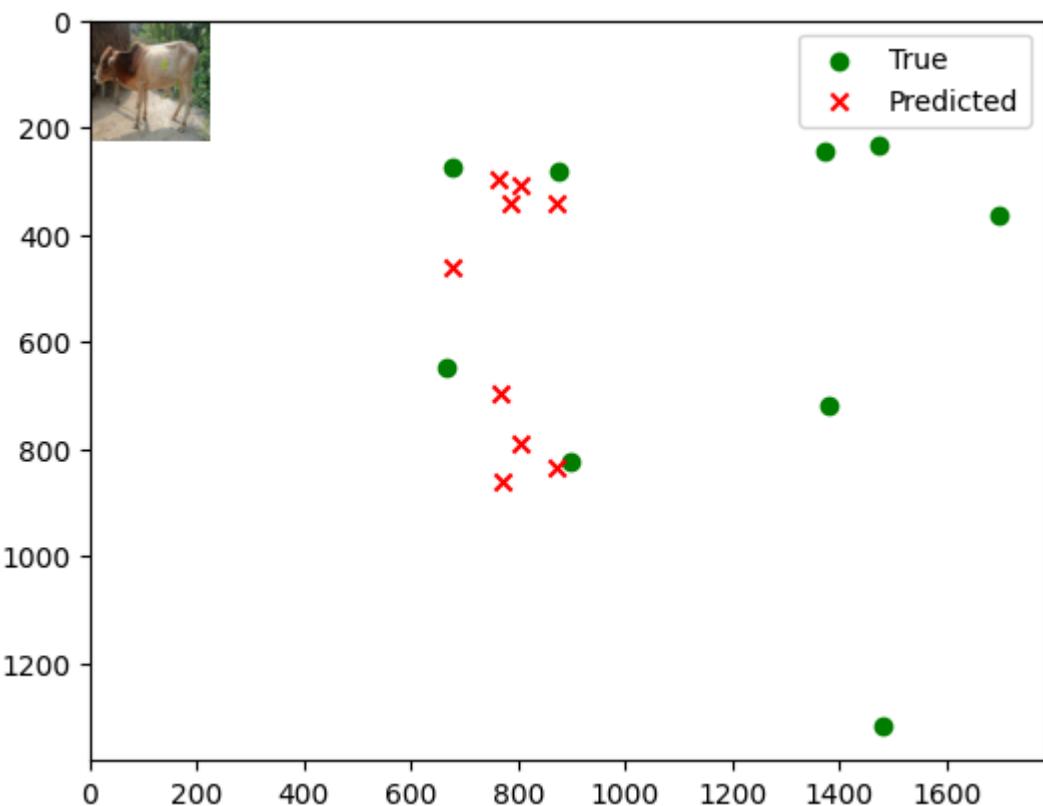


Image number: 318

True keypoints: [675. 302. 1638. 410. 657. 659. 873. 334. 891. 784. 132
7. 276.

1329. 714. 1419. 261. 1432. 1125.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[759.90234 327.57855]

[654.1008 445.10782]

[742.49615 671.4713]

[841.1771 329.893]

[842.31494 806.9388]

[774.63245 296.105]

[777.70465 761.4161]

[737.88293 283.7413]

[742.5145 832.38666]]

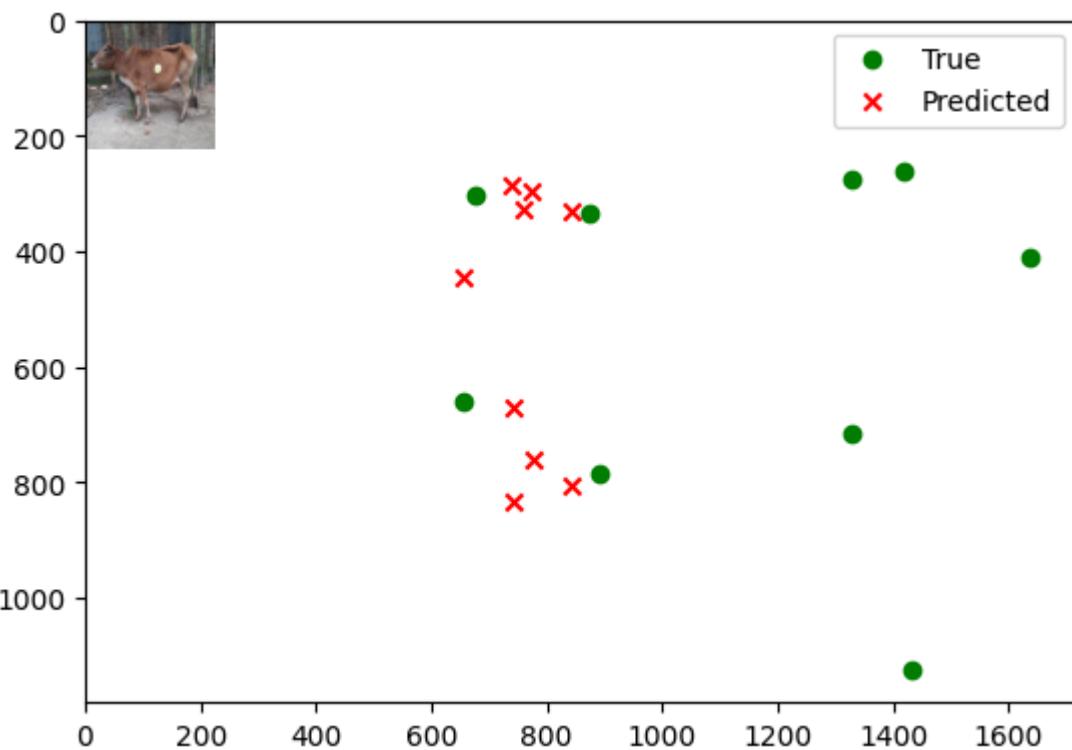


Image number: 319

True keypoints: [1228. 290. 296. 376. 1176. 630. 977. 303. 958. 748. 57. 252.]

584. 676. 494. 242. 524. 1100.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[768.29126 332.89038]

[663.15656 450.9053]

[750.5075 679.0654]

[851.8256 335.2056]

[852.9949 816.63885]

[784.8723 302.03864]

[788.12726 770.44525]

[748.02783 289.81104]

[752.4556 842.86487]]

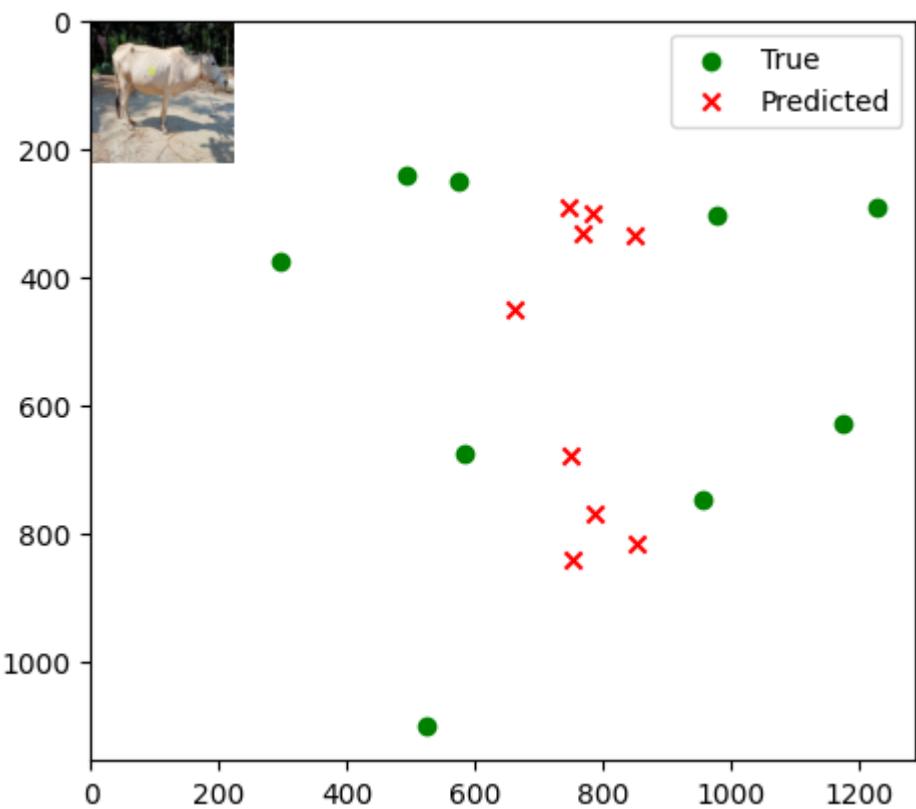


Image number: 320

True keypoints: [1128. 515. 541. 518. 1182. 713. 1033. 508. 1024. 823. 74. 467.

735. 777. 681. 460. 659. 1171.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[788.0683 342.60675]

[680.036 463.01926]

[769.80505 696.85474]

[874.0162 344.79276]

[875.2616 837.8963]

[805.2765 311.13995]

[808.5674 790.5776]

[767.40533 298.73294]

[771.8821 864.8278]]

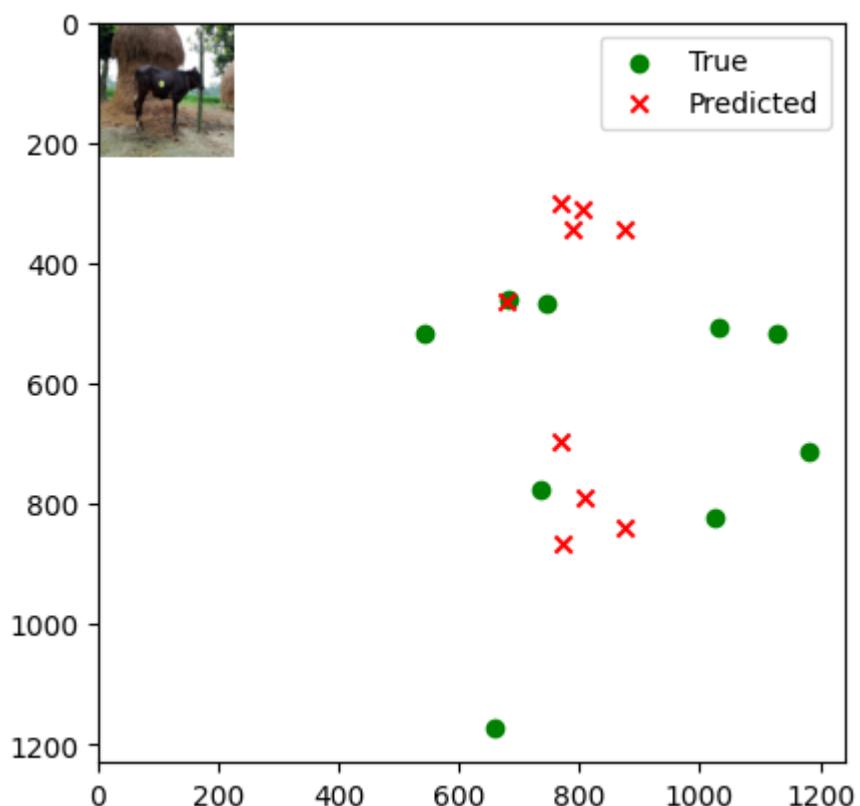


Image number: 321

True keypoints: [1168. 329. 207. 503. 1251. 657. 1000. 357. 996. 826. 558. 328.]

558. 798. 462. 316. 460. 1216.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[769.1816 334.89166]]

predicted keypoints: [

[751.9535 681.38904]

[851.0475 336.31604]

[852, 21484, 816, 5441]

[852.21484 810.5441]
[782.2029 302.29907]

[785.6414 771 53894]

[785.6414 771.53894]
[744.40985 289.86588]

[744.40985 289.86588]
[748 8437 841 79364]

[748.8437 841.79364]

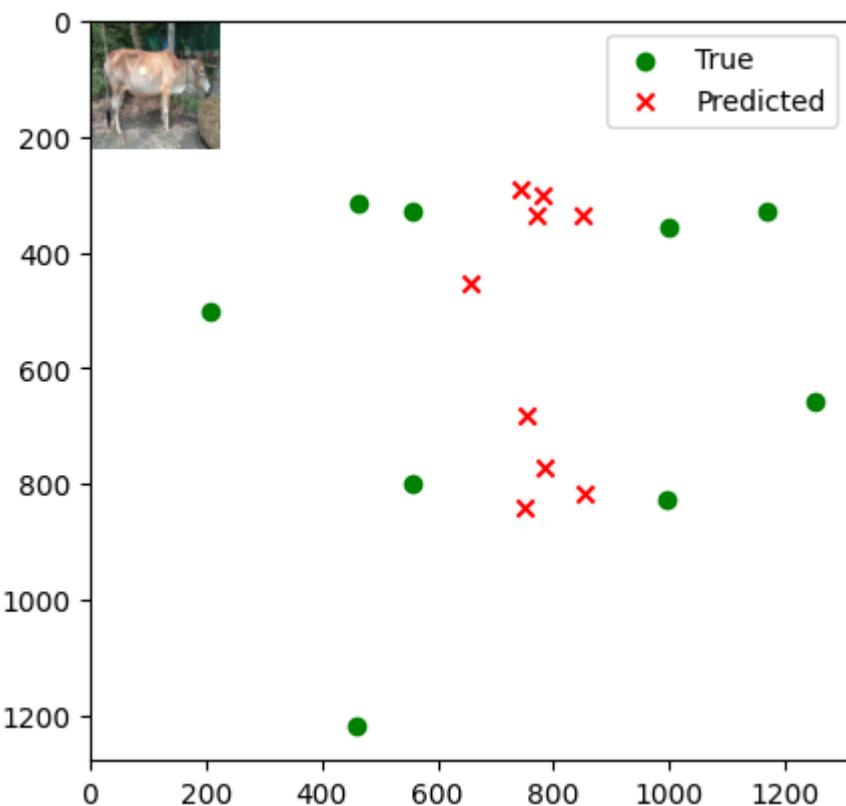


Image number: 322

True keypoints: [708. 333. 1607. 453. 668. 658. 909. 352. 924. 787. 133
7. 334.

1347. 737. 1403. 326. 1430. 1122.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[805.6936 350.16177]

[696.4549 473.28467]

[786.8875 712.20026]

[893.99036 352.55325]

[895.13025 856.8291]

[824.02625 318.31644]

[827.3289 808.30853]

[785.4591 305.72406]

[790.0896 884.609]]

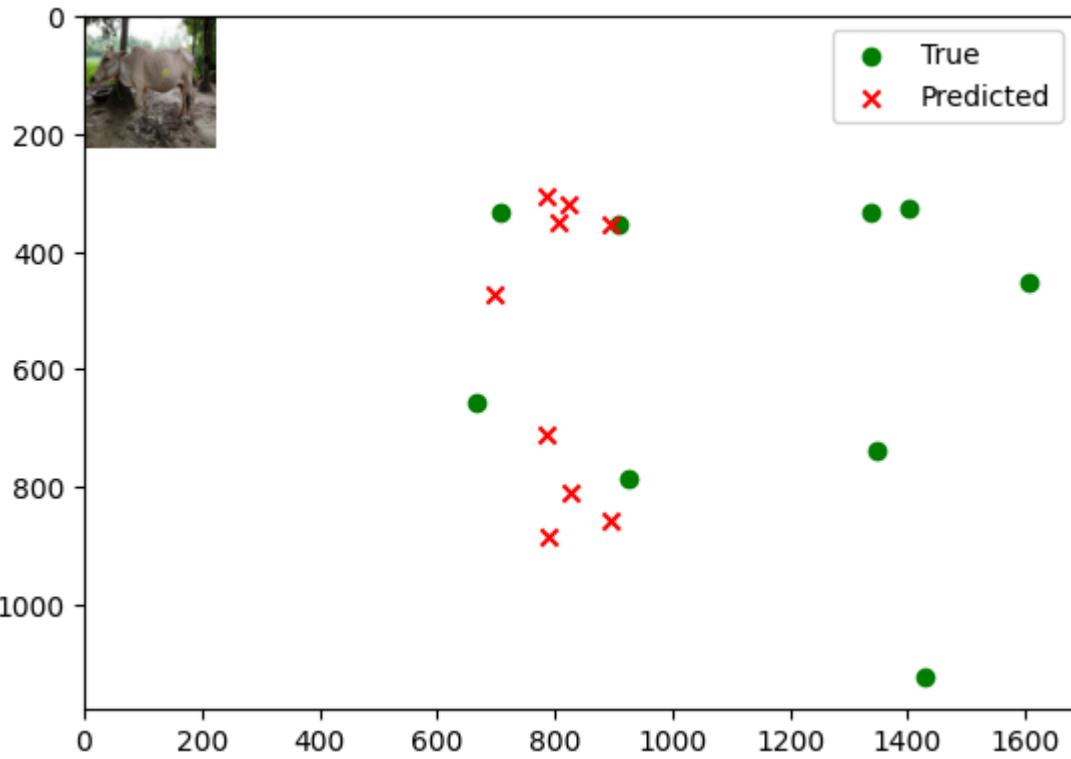


Image number: 323

True keypoints: [653. 295. 1723. 391. 670. 648. 883. 279. 902. 779. 136
1. 246.
1375. 727. 1484. 230. 1499. 1140.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[785.5927 339.54605]
[677.63434 460.56335]
[767.45447 694.19745]
[870.474 341.97995]
[871.52765 834.682]
[801.9444 307.5938]
[805.11395 787.5541]
[764.1358 295.02893]
[768.8816 861.359]]

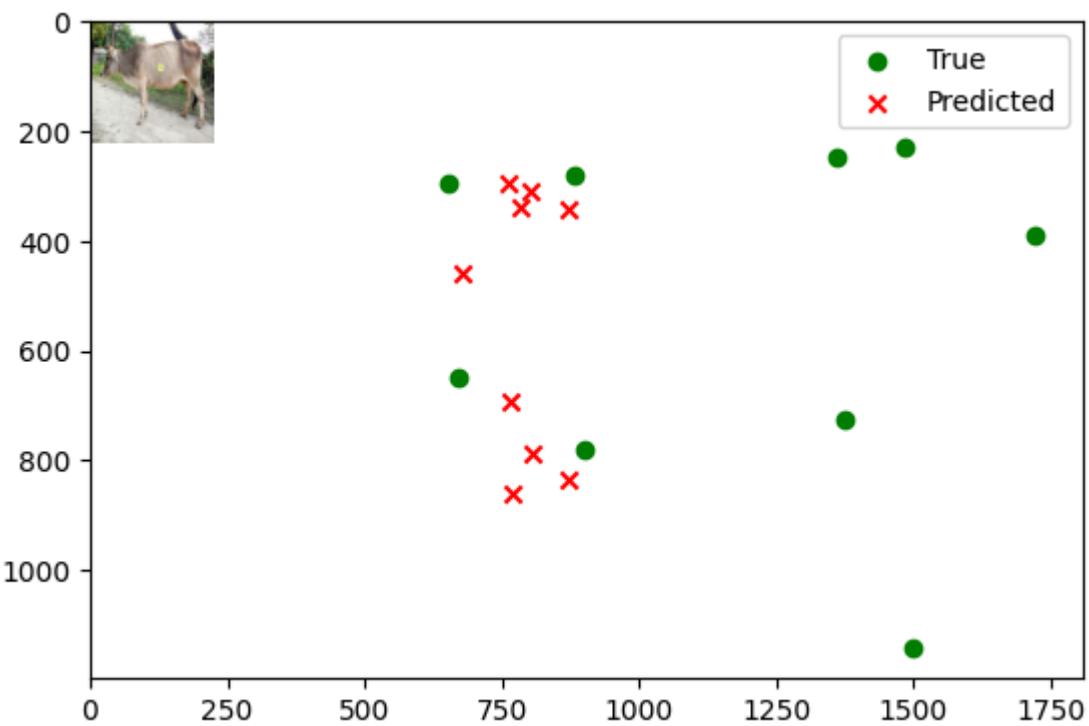


Image number: 324

True keypoints: [660. 259. 1705. 340. 633. 596. 885. 252. 910. 759. 138
1. 177.
1398. 671. 1468. 166. 1503. 1207.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[770.5159 332.38123]

[664.1929 451.4575]

[752.8365 680.84467]

[853.4163 334.82263]

[854.3496 818.38873]

[786.01483 300.72592]

[789.16394 772.261]

[748.9092 288.3033]

[753.6306 844.43866]]

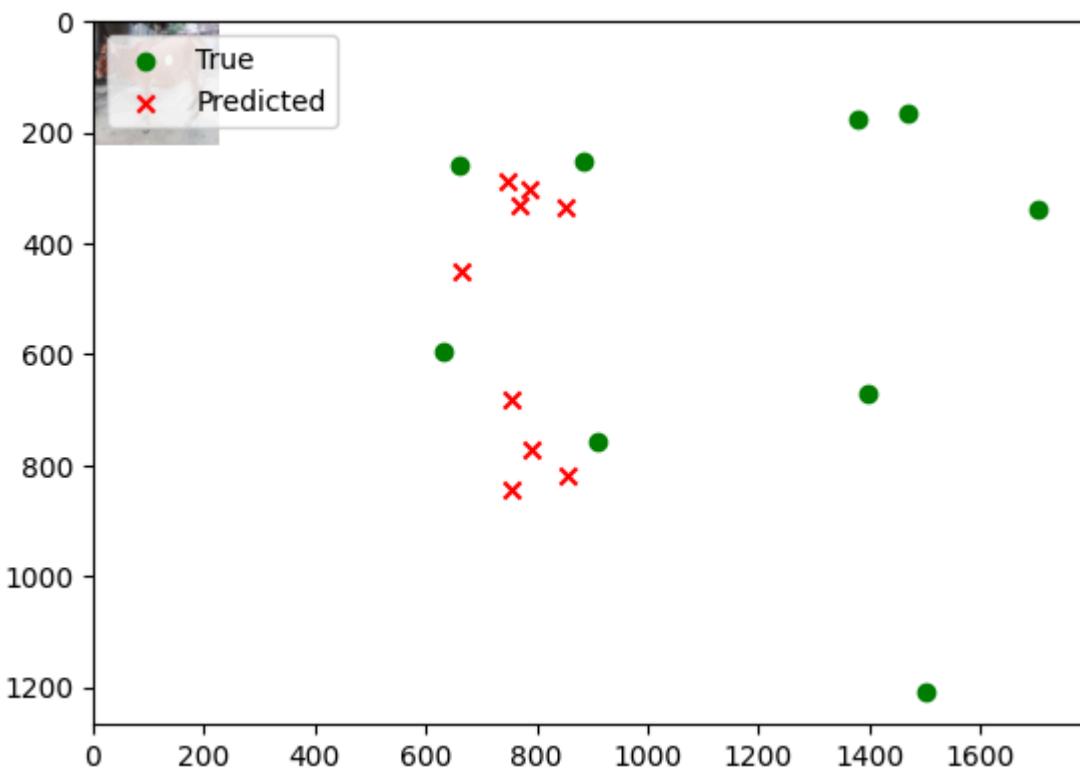


Image number: 325

True keypoints: [1244. 289. 310. 443. 1283. 588. 1040. 305. 1051. 750. 58. 6. 270.]

612. 704. 515. 262. 543. 1173.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[725.0254 312.62848]

[616.7492 424.96063]

[709.19867 642.1183]

[799.72705 313.9469]

[800.8335 768.187]

[734.0464 280.01248]

[737.2156 726.1544]

[697.91266 267.74792]

[702.5056 791.07385]]

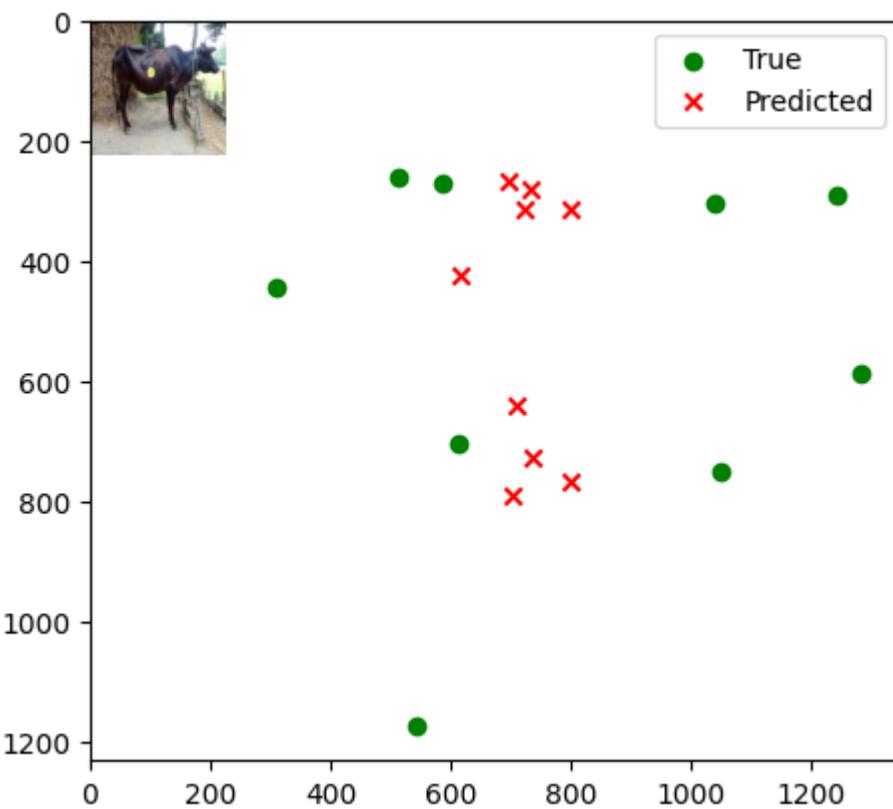


Image number: 326

True keypoints: [707. 436. 1681. 561. 683. 728. 936. 426. 950. 891. 135

6. 405.

1352. 822. 1473. 393. 1475. 1274.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[860.7507 377.4385]

[747.5145 507.24518]

[840.30334 761.23206]

[957.63055 379.95764]

[958.72217 916.83264]

[883.5161 345.21606]

[887.136 864.83966]

[842.80566 332.35562]

[847.3777 947.5299]]

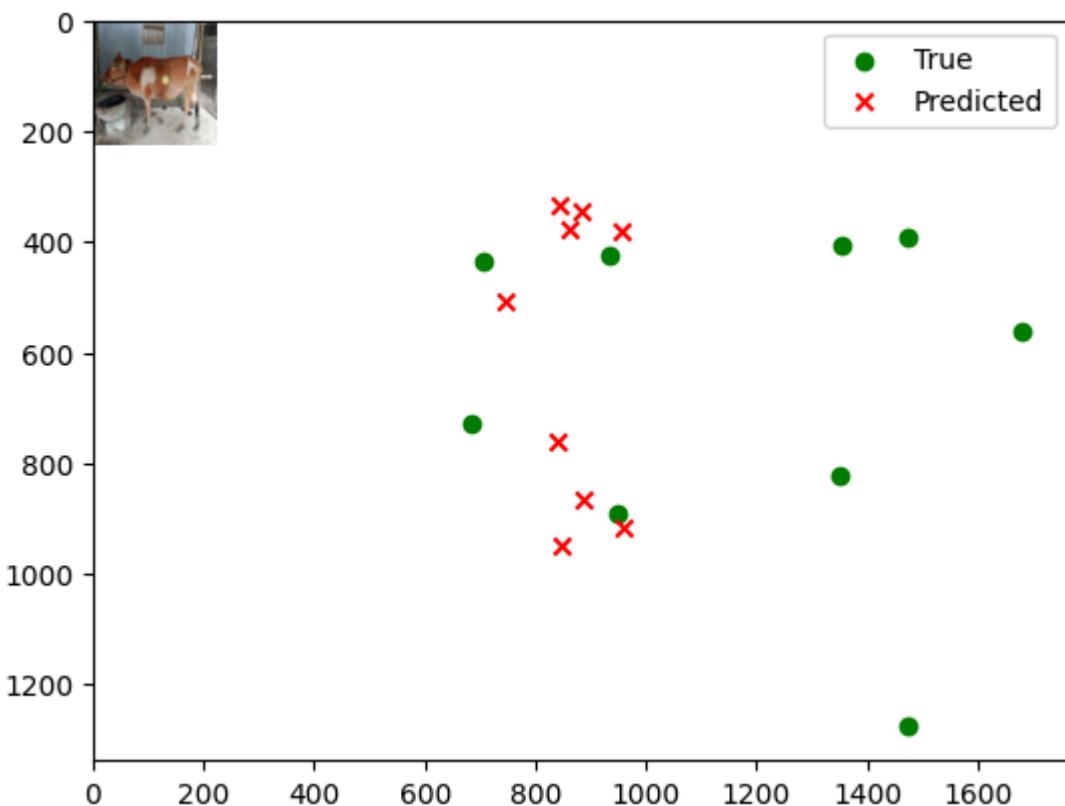


Image number: 327

True keypoints: [742. 236. 1675. 395. 675. 612. 906. 274. 916. 769. 138
6. 244.

1387. 708. 1469. 236. 1469. 1247.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[763.11774 329.7519]

[657.9553 447.41324]

[745.5309 674.36176]

[845.45575 332.09213]

[846.58453 810.76373]

[778.827 298.67453]

[782.0074 764.9147]

[742.111 286.39496]

[746.6359 836.5637]]

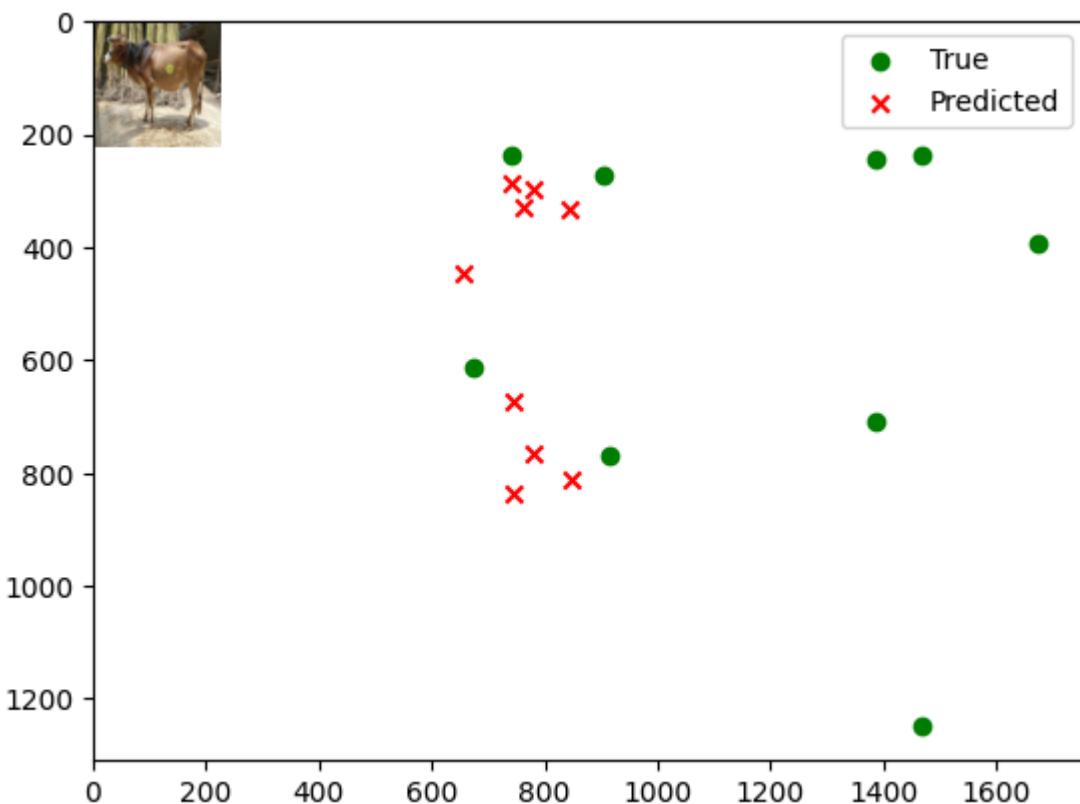


Image number: 328

True keypoints: [666. 244. 1715. 264. 626. 595. 890. 242. 899. 776. 142. 5. 191.

1430. 710. 1501. 182. 1510. 1352.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[738.32007 317.7345]

[635.4005 432.3]

[721.4785 652.328]

[817.10657 320.04614]

[818.2433 783.8837]

[752.39624 287.06085]

[755.4861 739.60815]

[716.73694 274.93256]

[721.2173 808.51654]]

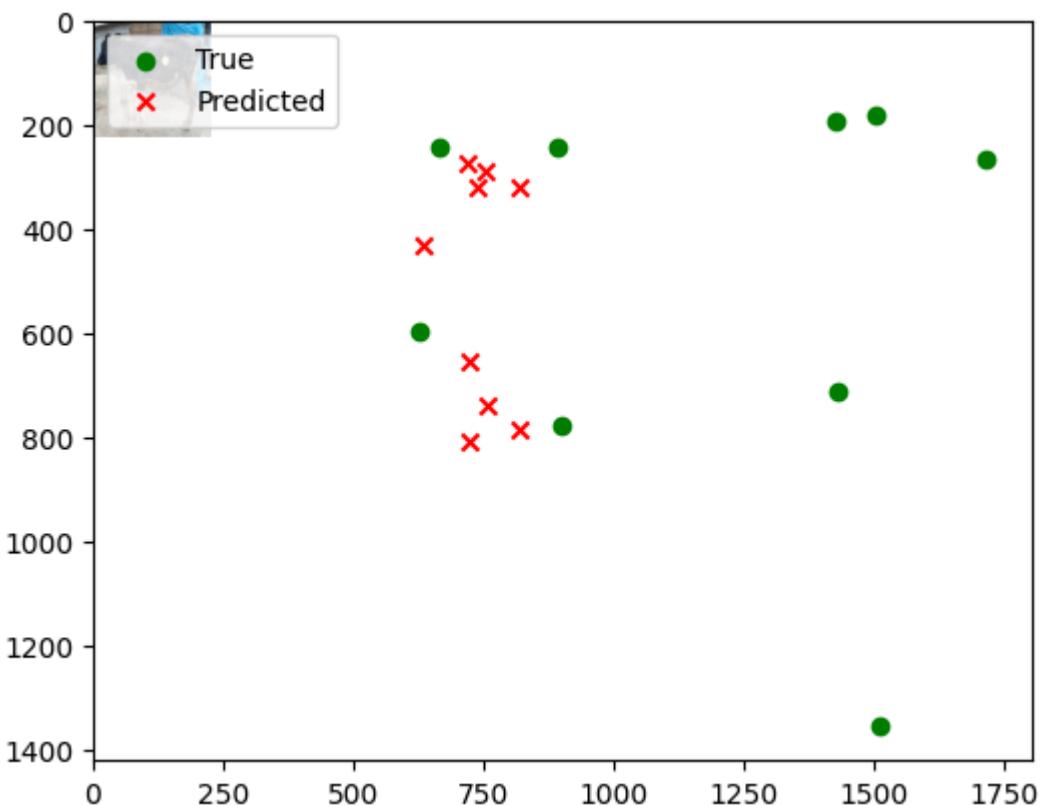


Image number: 329

True keypoints: [757. 313. 1731. 471. 733. 669. 945. 351. 953. 849. 140
0. 307.

1394. 801. 1511. 301. 1444. 1242.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[836.6706 365.3039]

[725.0961 492.27985]

[816.9638 739.75354]

[929.67993 367.7794]

[930.7898 890.5097]

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[817.59033 320.4179]

[822.20056 919.9042]]

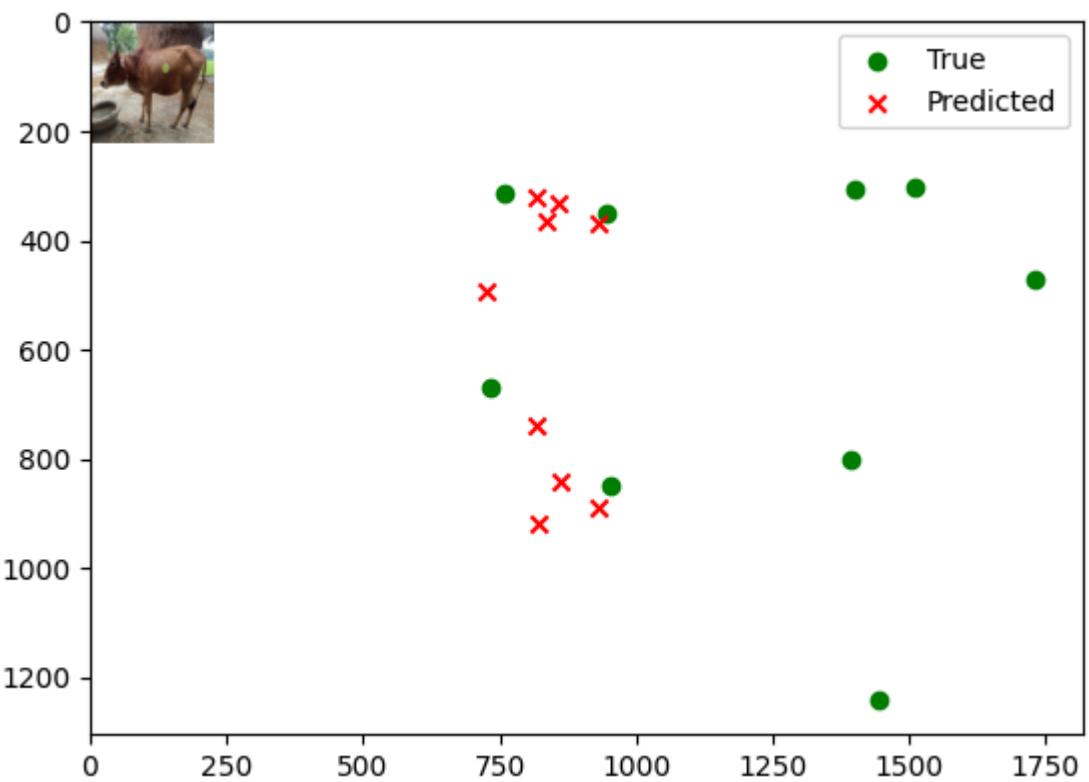


Image number: 330

True keypoints: [693. 240. 1770. 331. 663. 607. 923. 256. 954. 783. 145
3. 209.

1456. 699. 1522. 182. 1546. 1217.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[745.3663 320.936]

[641.60333 436.4818]

[728.3529 658.6052]

[824.9947 323.252]

[826.0206 791.4101]

[759.62646 289.92633]

[762.7158 746.7617]

[723.64105 277.7315]

[728.21704 816.3189]]

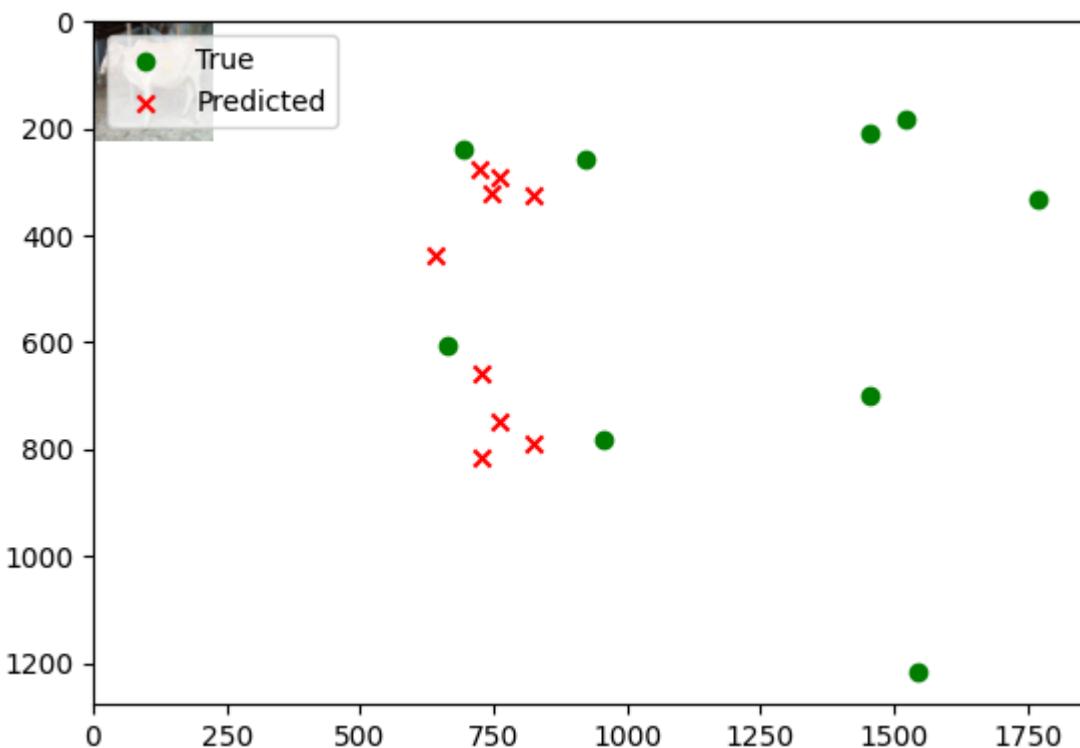


Image number: 331

True keypoints: [698. 306. 1672. 403. 712. 637. 901. 293. 924. 771. 1367. 274.

1376. 731. 1451. 274. 1455. 1131.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[792.00836 343.60715]

[684.32074 464.99014]

[773.59534 700.0395]

[878.5142 346.0109]

[879.63196 842.07324]

[809.65015 312.07825]

[812.93964 794.4069]

[771.724 299.60498]

[776.30676 869.26416]]

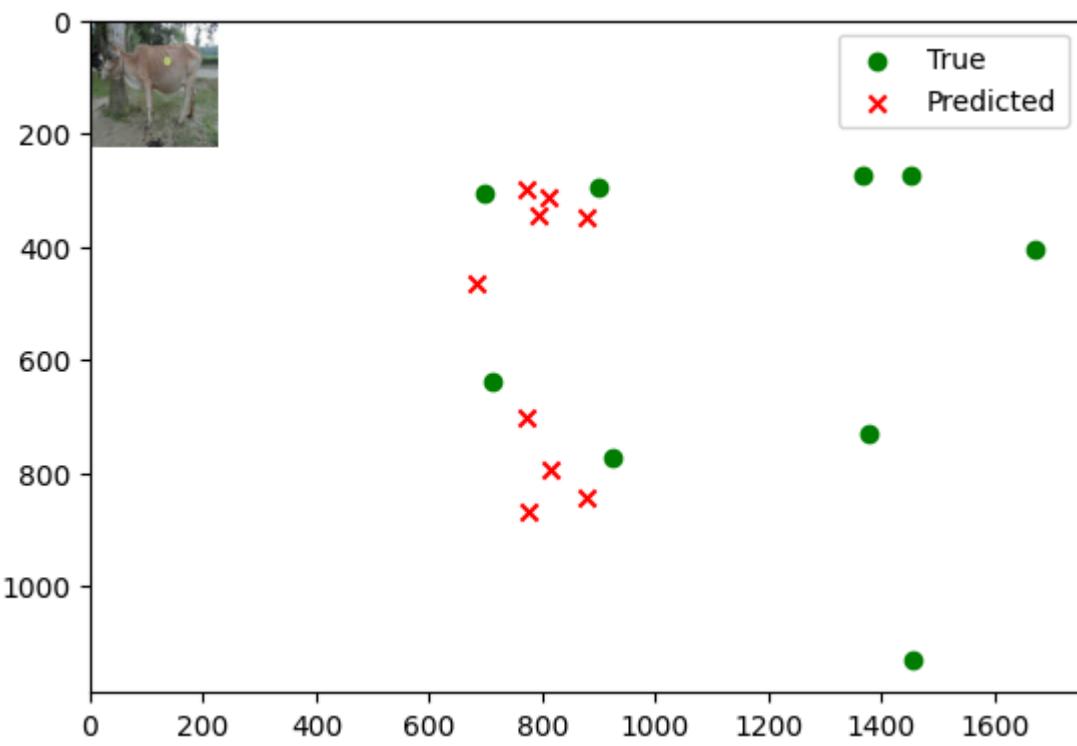


Image number: 332

True keypoints: [655. 302. 1597. 385. 683. 583. 857. 264. 880. 719. 132
7. 262.

1327. 667. 1400. 247. 1396. 1025.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[783.47 339.95383]

[676.9716 460.02008]

[765.2736 692.5006]

[869.0789 342.34286]

[870.22986 833.0216]

[800.9582 308.8408]

[804.26025 785.85376]

[763.47614 296.48492]

[767.9554 859.9129]]

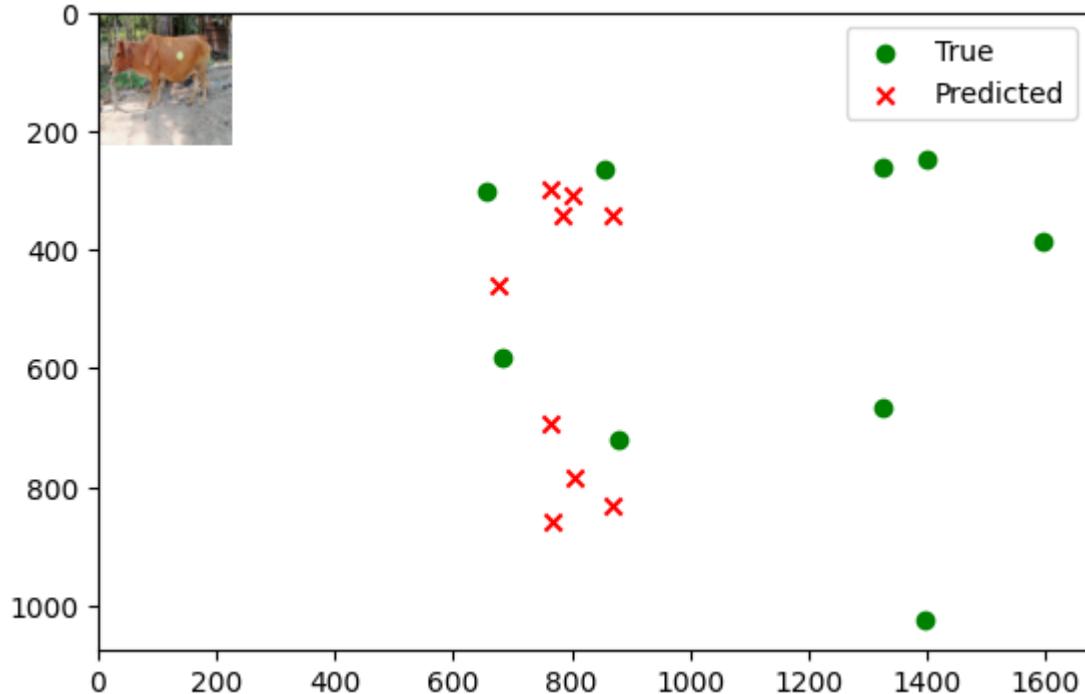


Image number: 333
 True keypoints: [1175. 296. 233. 447. 1253. 617. 982. 298. 998. 794. 53
 6. 294.
 547. 777. 451. 286. 488. 1250.]
 Length of true keypoints: 9
 Length of predicted keypoints: 9
 Predicted keypoints: [[819.8592 356.6946]
 [708.0979 481.78137]
 [800.83276 724.9969]
 [909.5959 359.01642]
 [910.64246 871.76685]
 [838.1141 324.08673]
 [841.4807 822.6787]
 [798.74817 311.29495]
 [803.4951 899.9943]]

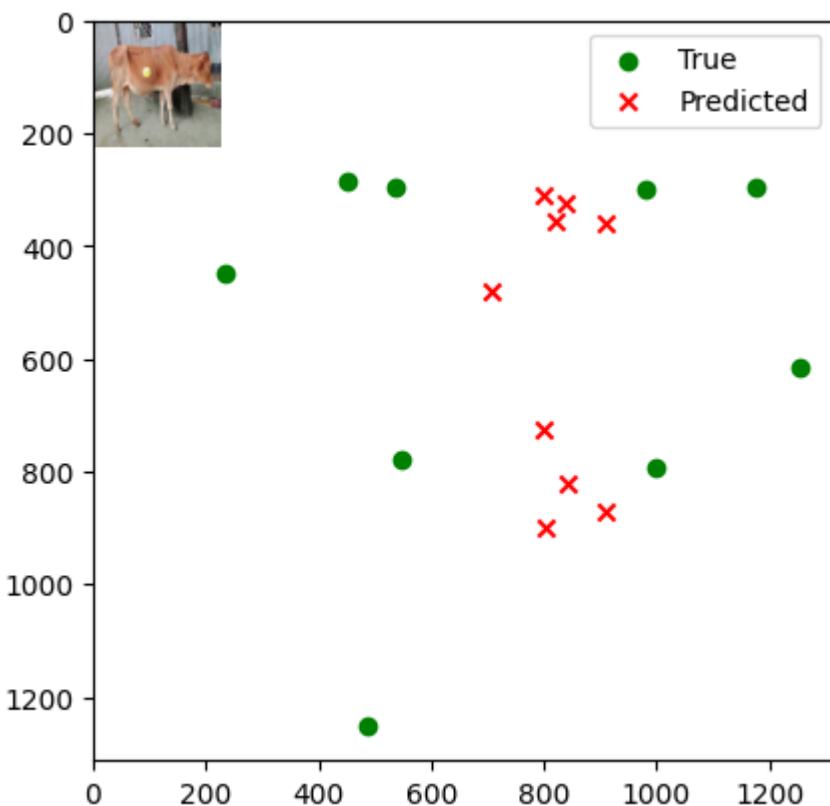


Image number: 334
 True keypoints: [691. 419. 1550. 592. 667. 724. 877. 414. 899. 870. 124
 9. 388.
 1258. 812. 1348. 382. 1357. 1361.]
 Length of true keypoints: 9
 Length of predicted keypoints: 9
 Predicted keypoints: [[835.94226 366.47177]
 [725.47205 492.63837]
 [816.1416 739.34546]
 [929.84375 368.8753]
 [931.0283 890.33545]
 [857.76917 335.0755]
 [861.3751 839.8148]
 [818.203 322.51505]
 [822.56055 920.0257]]

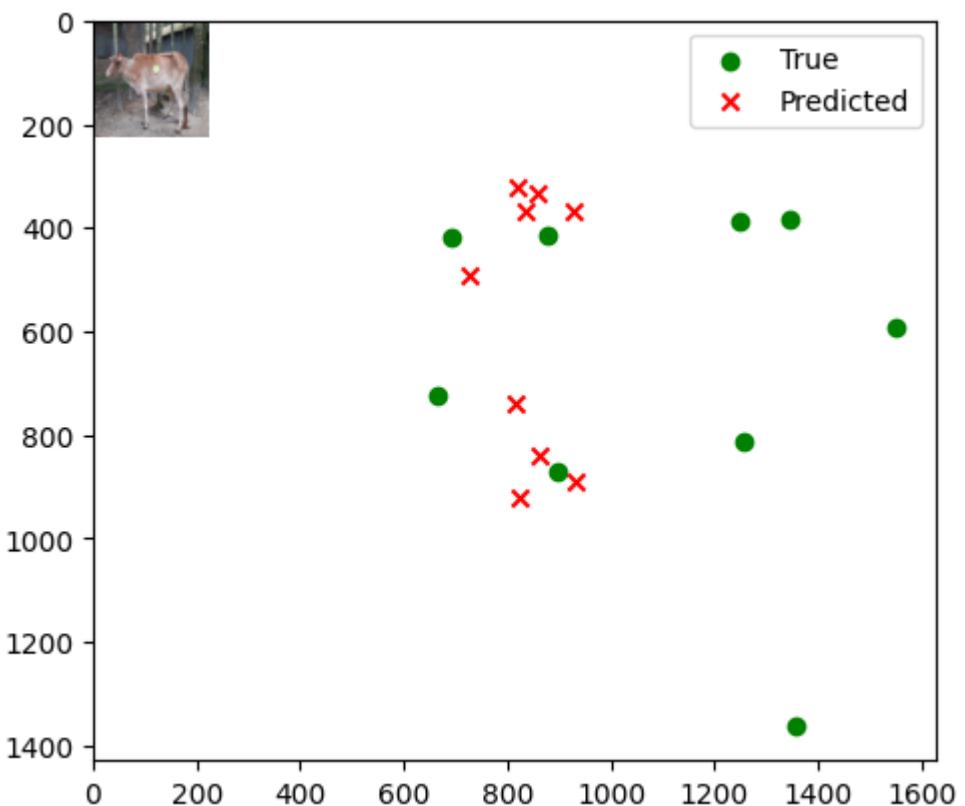


Image number: 335

True keypoints: [708. 277. 1672. 395. 653. 610. 848. 285. 865. 765. 134. 6. 254.

1345. 695. 1451. 235. 1439. 1195.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[739.0869 317.7832]

[634.5917 432.56903]

[722.3481 653.1571]

[817.2364 319.9644]

[818.3595 784.28424]

[752.0945 286.46603]

[755.1301 740.2234]

[716.15076 274.2382]

[720.75226 808.6655]]

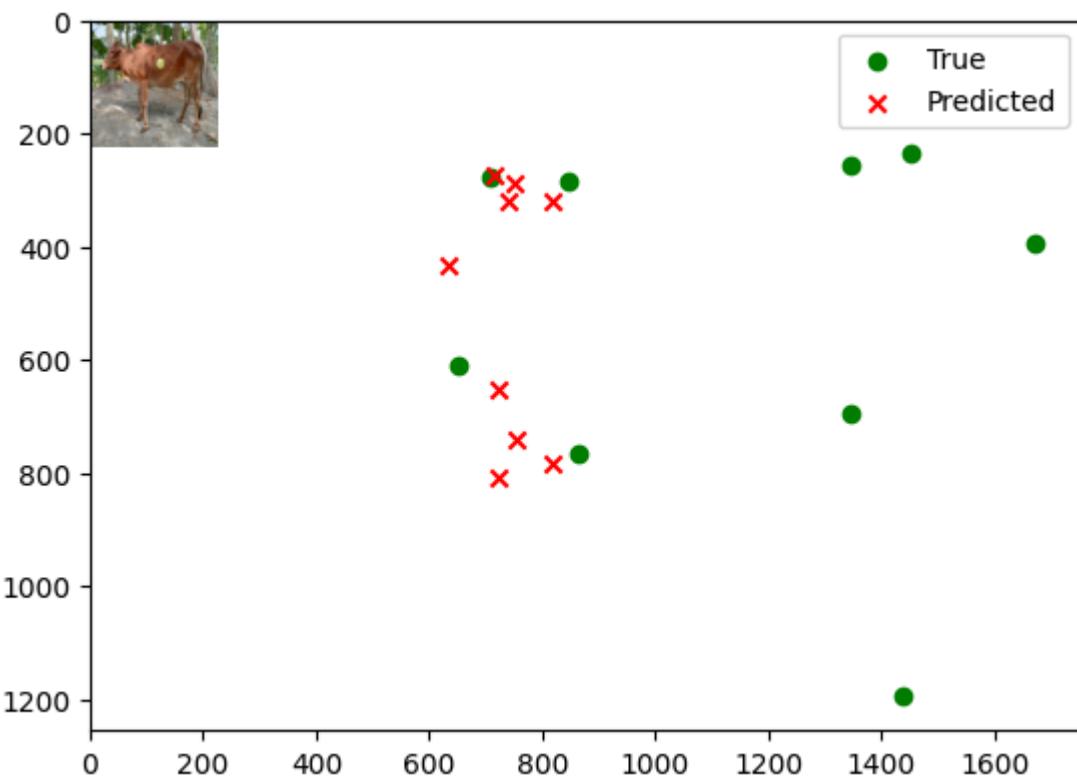


Image number: 336

True keypoints: [634. 297. 1682. 412. 594. 625. 867. 297. 854. 803. 135
7. 295.

1355. 764. 1484. 293. 1483. 1322.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[794.3207 343.79105]

[685.64404 465.92572]

[775.92957 701.96814]

[880.51434 346.2501]

[881.55554 844.1695]

[811.3032 311.72546]

[814.5318 796.46576]

[773.13306 299.11295]

[777.89246 871.28796]]

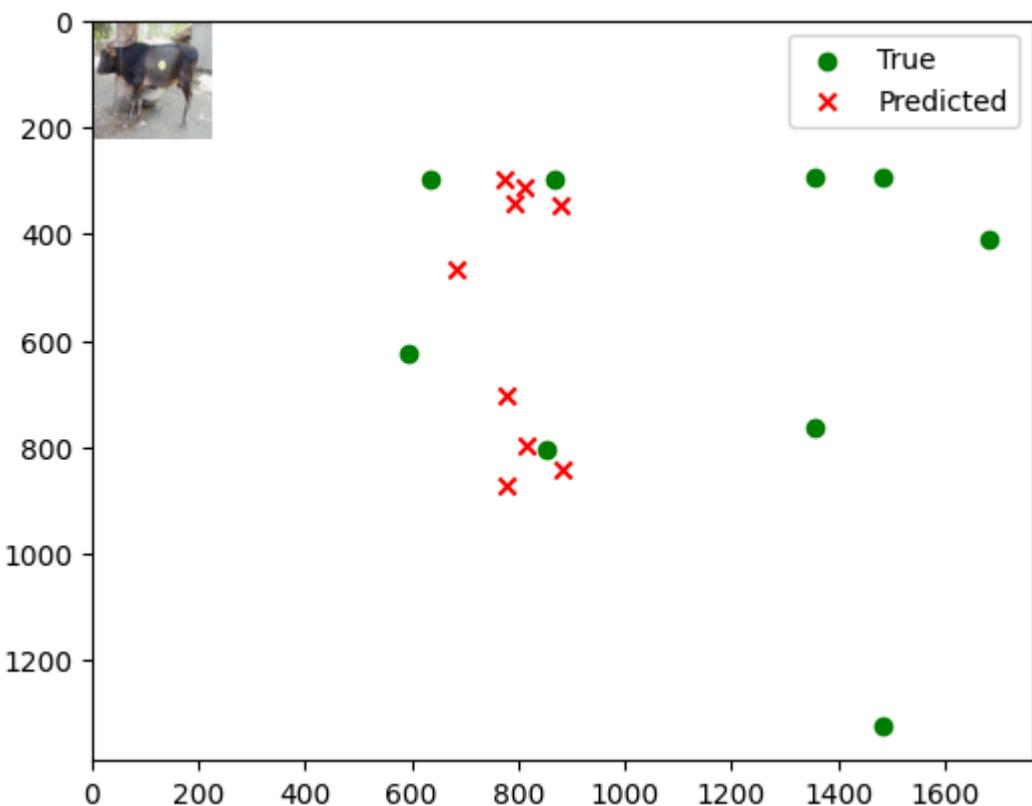


Image number: 337

True keypoints: [680. 290. 1539. 454. 615. 566. 866. 321. 842. 756. 125
3. 291.

1260. 718. 1326. 281. 1353. 1182.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[808.5542 352.06732]

[699.6078 475.28717]

[789.6183 714.8016]

[897.68005 354.45367]

[898.8652 860.172]

[827.60583 320.5122]

[830.9961 811.4124]

[789.0184 307.97034]

[793.5565 888.2217]]

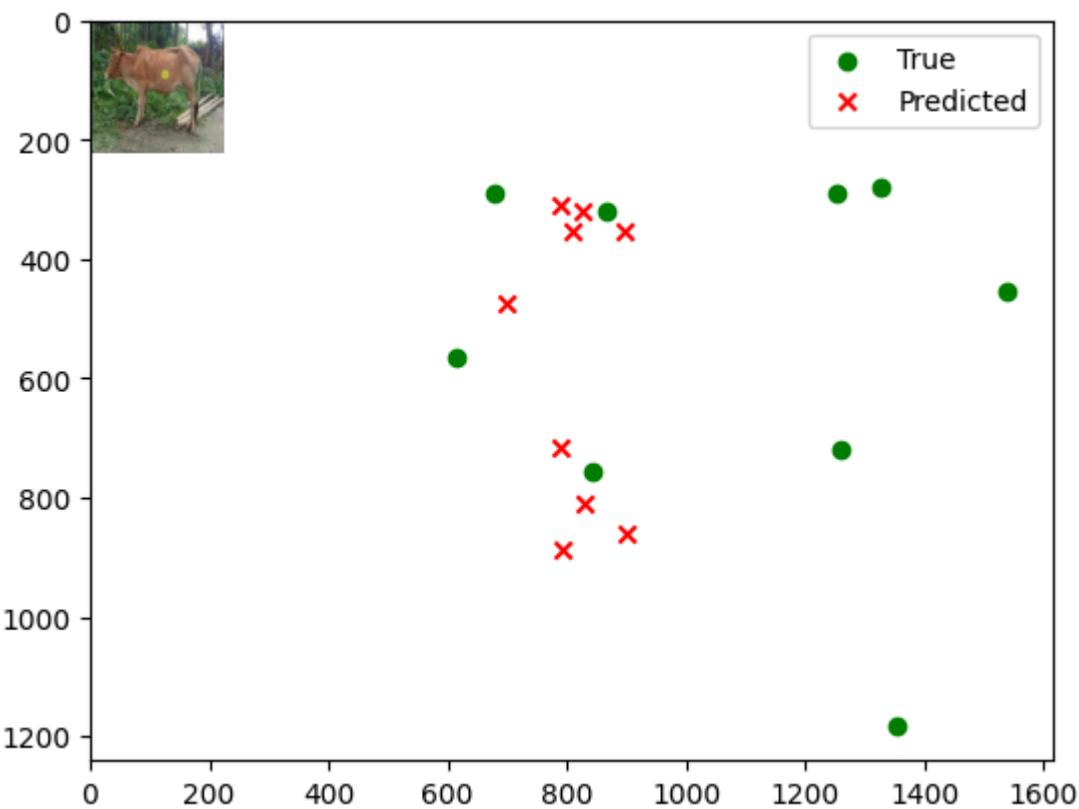


Image number: 338

True keypoints: [741. 400. 1707. 544. 705. 735. 904. 396. 920. 871. 1409. 397.

1414. 826. 1484. 388. 1479. 1305.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[864.7609 379.77994]

[751.47504 509.92303]

[844.1682 764.8552]

[962.51605 382.28714]

[963.6304 921.3258]

[888.1457 347.73438]

[891.80444 869.0657]

[847.3138 334.8898]

[851.8063 952.3269]]

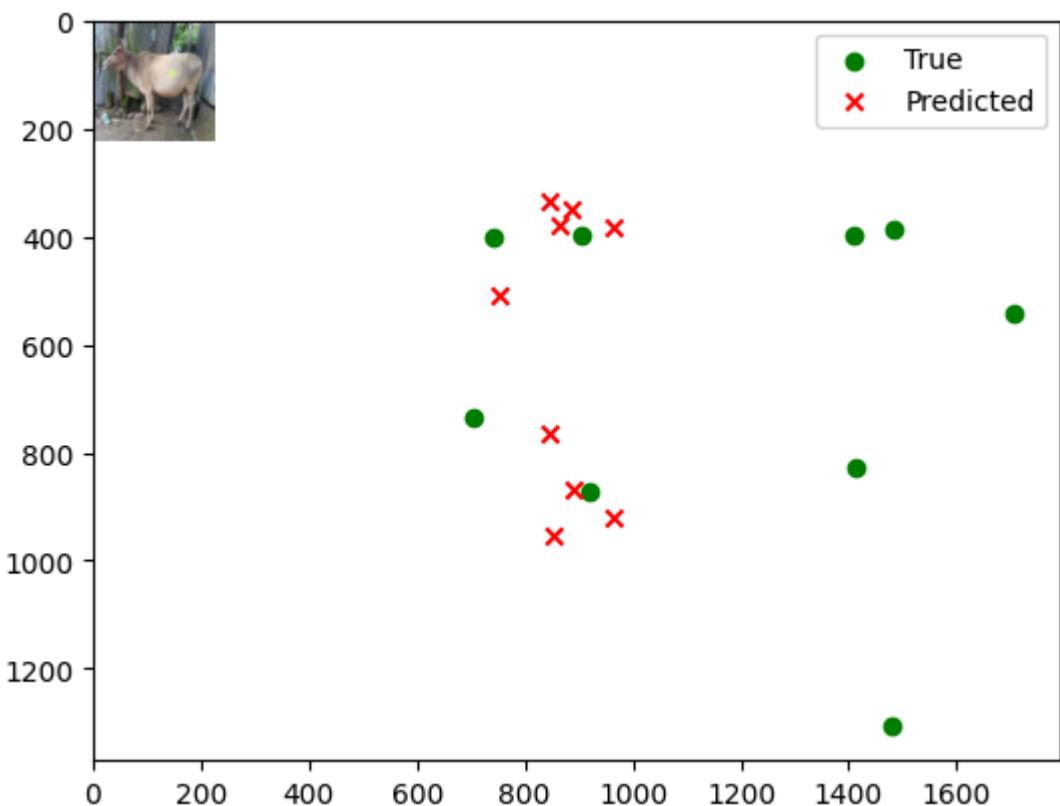


Image number: 339

True keypoints: [1110. 295. 227. 320. 1184. 569. 971. 289. 971. 758. 51. 8. 249.]

518. 712. 414. 236. 445. 1266.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[765.97534 331.6796]

[659.22156 449.4649]

[748.491 677.3616]

[848.39075 333.77124]

[849.4901 813.6581]

[781.0504 300.14343]

[784.29016 767.97864]

[743.9968 287.79596]

[748.52936 839.40436]]

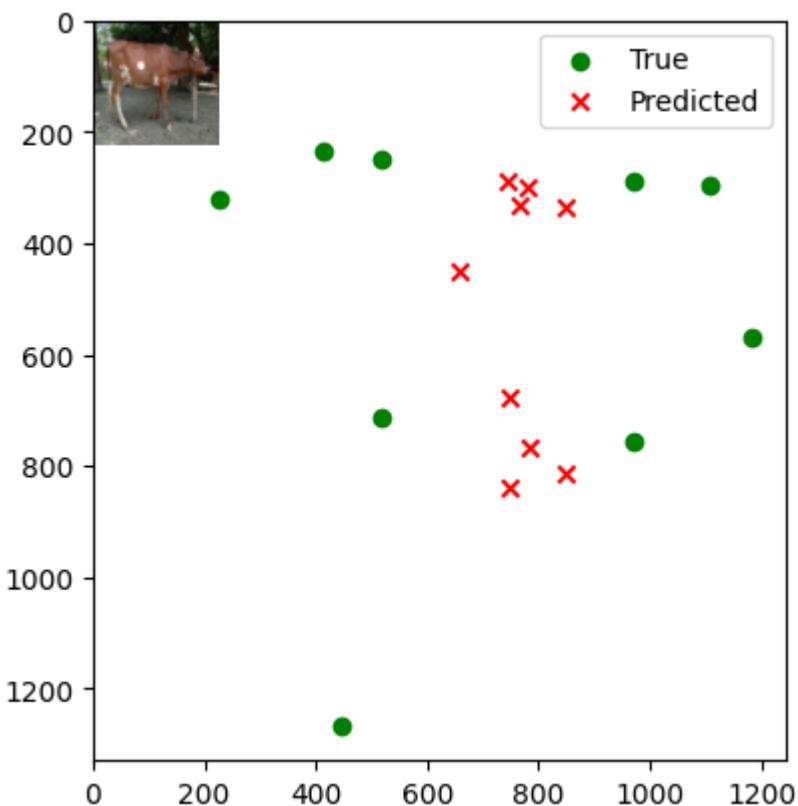


Image number: 340

True keypoints: [753. 231. 1775. 365. 753. 577. 979. 240. 1007. 744. 144
7. 179.

1465. 656. 1549. 187. 1565. 1164.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[741.867 318.45804]

[637.83466 433.9362]

[725.0238 655.3575]

[820.4718 320.83975]

[821.47205 787.25836]

[755.2747 287.1637]

[758.3171 742.94073]

[719.34973 274.8791]

[724.0328 811.89404]]

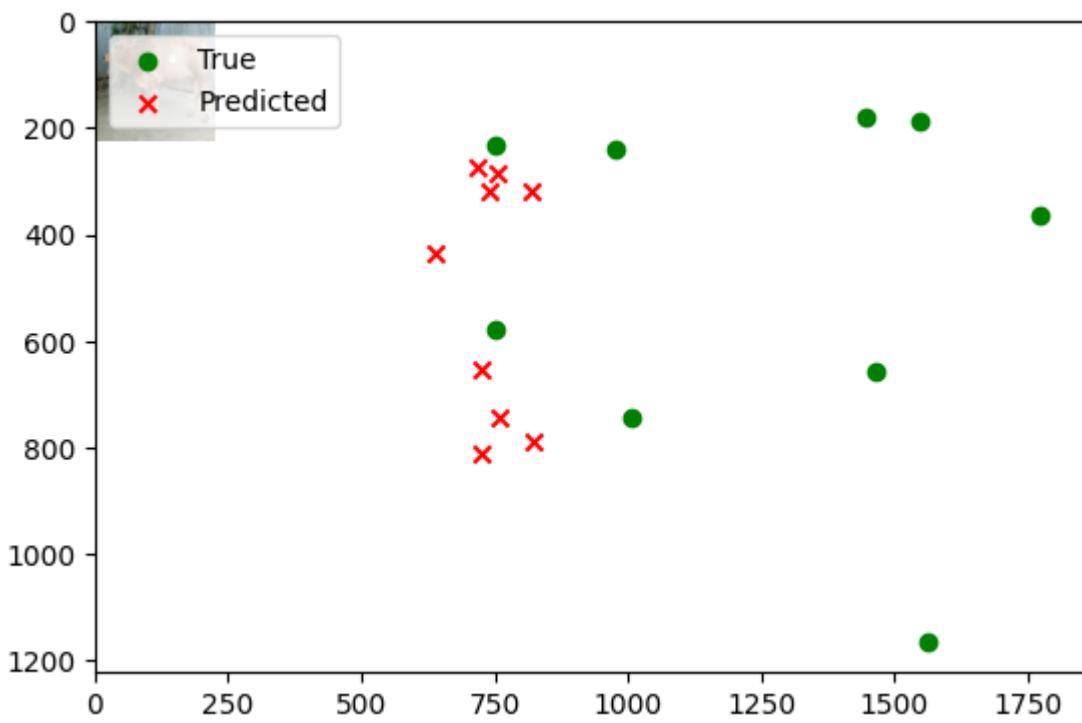


Image number: 341

True keypoints: [694. 277. 1782. 422. 667. 640. 915. 308. 928. 848. 143
3. 295.

1449. 786. 1519. 280. 1546. 1249.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[806.31366 350.05457]

[697.3091 473.49957]

[787.52386 712.6609]

[894.70917 352.55417]

[895.7582 857.4374]

[824.7116 318.21378]

[828.03235 808.8824]

[786.18677 305.59988]

[790.8417 885.2849]]

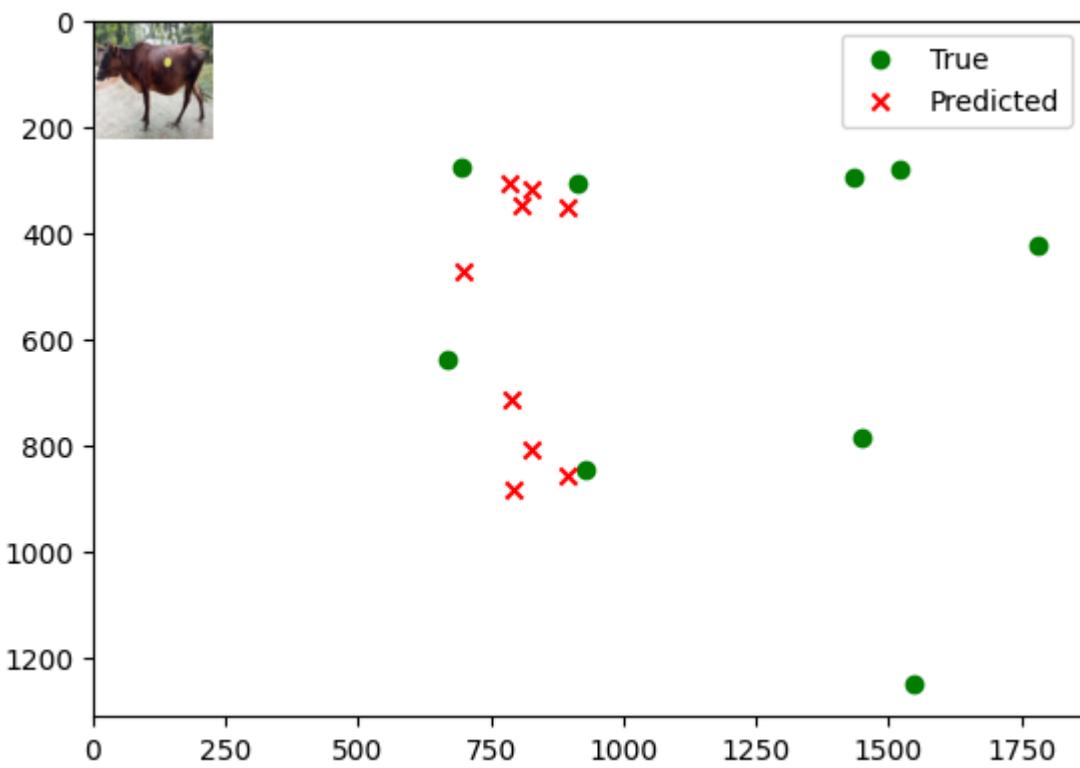


Image number: 342

True keypoints: [721. 292. 1666. 385. 717. 622. 947. 288. 978. 775. 137
7. 249.

1386. 708. 1468. 241. 1486. 1230.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[769.0637 332.20804]
[662.9534 450.828]
[751.35486 679.5995]
[851.9317 334.5663]
[853.0999 817.03815]
[784.79834 300.8476]
[787.93994 770.85785]
[747.7697 288.47006]
[752.3534 843.0138]]

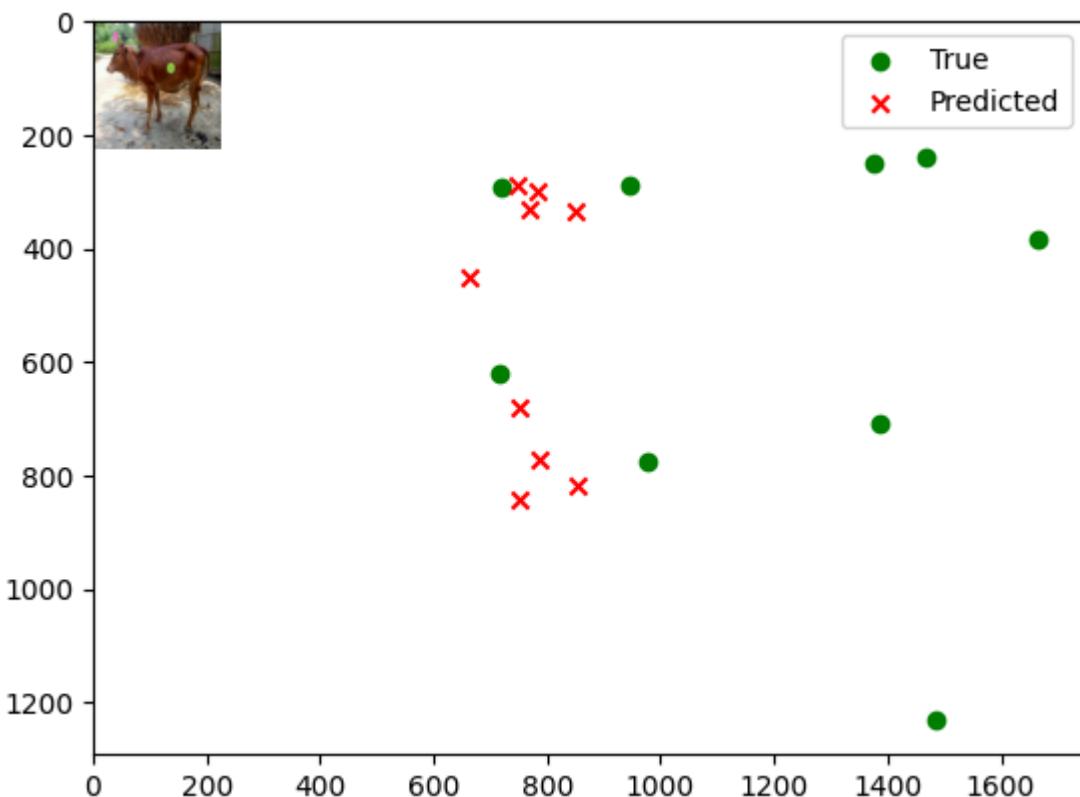


Image number: 343

True keypoints: [659. 380. 1697. 504. 692. 699. 889. 370. 892. 869. 136
6. 354.

1369. 825. 1476. 339. 1501. 1346.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[831.47363 363.33667]

[720.51154 489.39133]

[811.8979 735.27704]

[923.99036 365.73618]

[925.07635 885.0214]

[852.07605 331.445]

[855.5576 834.90656]

[812.5335 318.77545]

[817.07495 914.2394]]

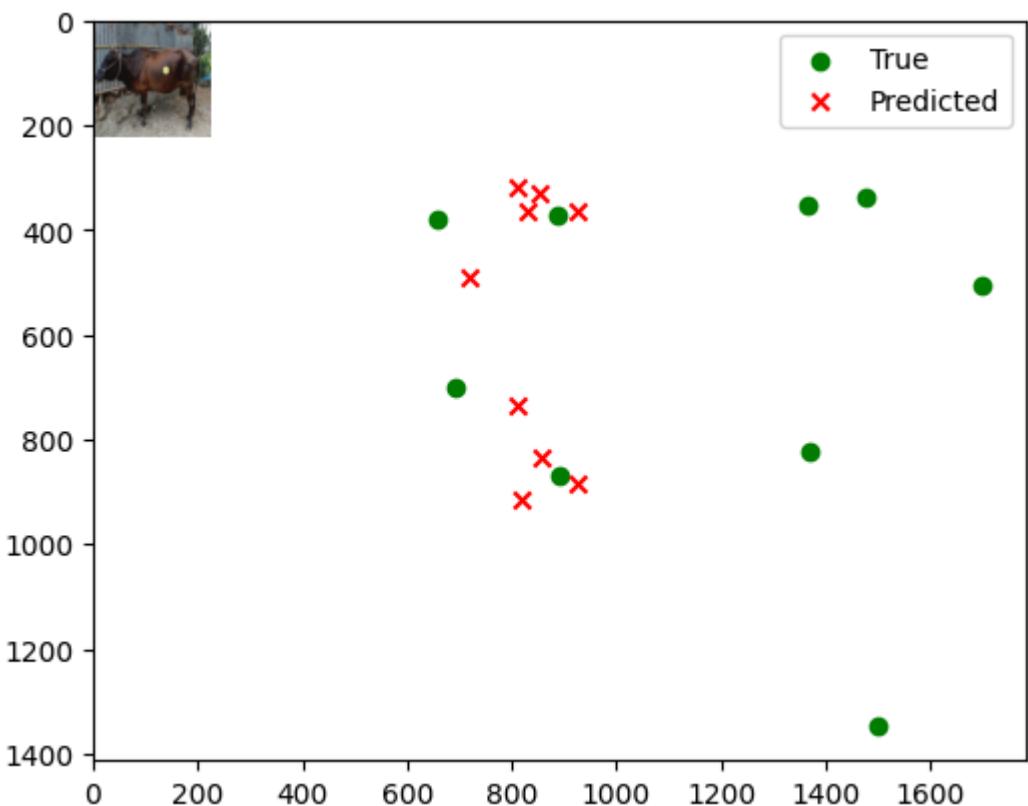


Image number: 344

True keypoints: [737. 305. 1687. 316. 684. 614. 953. 298. 996. 758. 135
7. 215.

1381. 669. 1471. 194. 1519. 1242.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[759.6959 327.339]

[654.20435 444.93304]

[742.287 671.2167]

[840.9995 329.70462]

[842.13513 806.7448]

[774.54474 295.9629]

[777.62976 761.16437]

[737.8692 283.58344]

[742.51416 832.19666]]

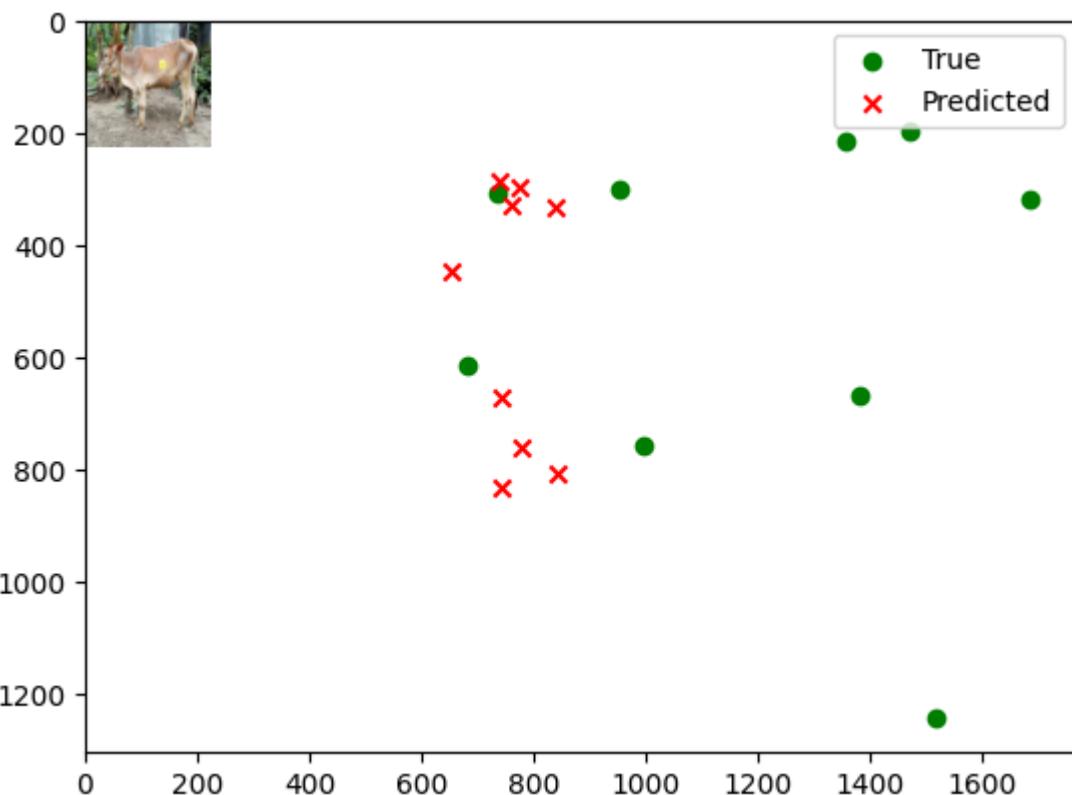


Image number: 345

True keypoints: [713. 293. 1753. 405. 656. 633. 875. 297. 901. 804. 139
8. 268.

1410. 760. 1493. 261. 1519. 1201.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[778.70703 337.39993]

[672.2034 456.99255]

[760.6715 688.2547]

[863.388 339.76874]

[864.5565 827.7184]

[795.56537 306.17606]

[798.8232 780.8742]

[758.2085 293.8313]

[762.7117 854.28973]]

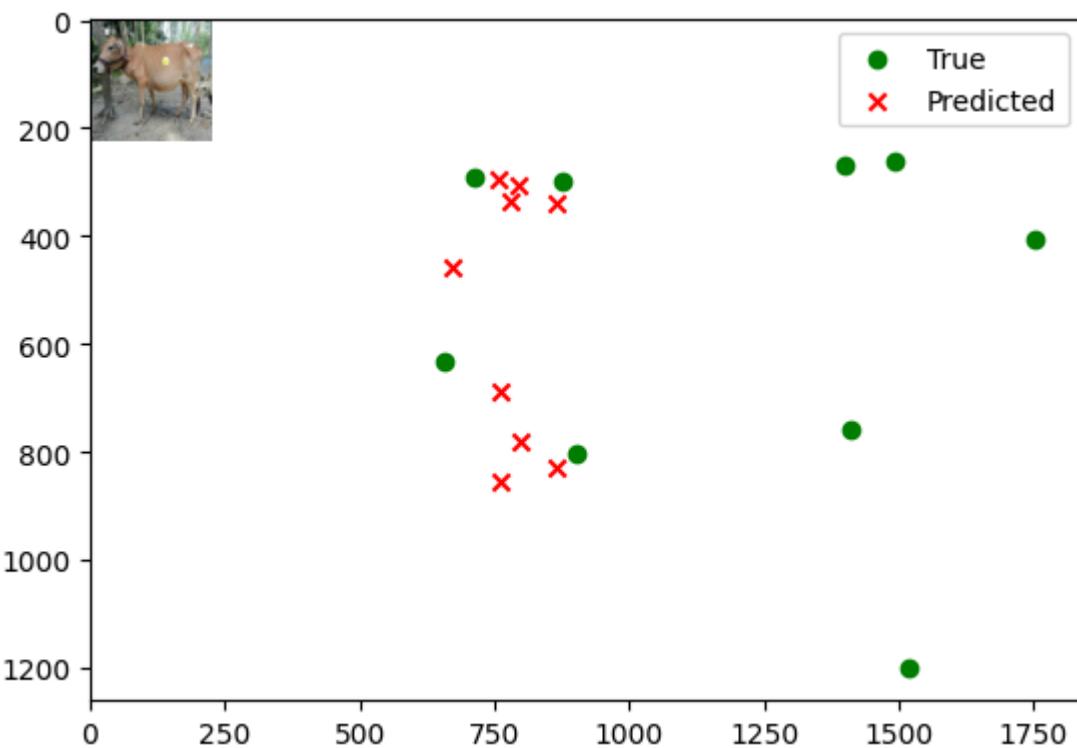


Image number: 346

True keypoints: [681. 267. 1652. 345. 666. 576. 860. 265. 881. 719. 131
6. 233.

1329. 643. 1400. 213. 1432. 1112.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[768.9042 333.234]

[663.7007 451.31152]

[751.11554 679.6247]

[852.545 335.55487]

[853.7631 817.33905]

[785.56915 302.4498]

[788.8403 771.0637]

[748.71216 290.23816]

[753.09314 843.5562]]

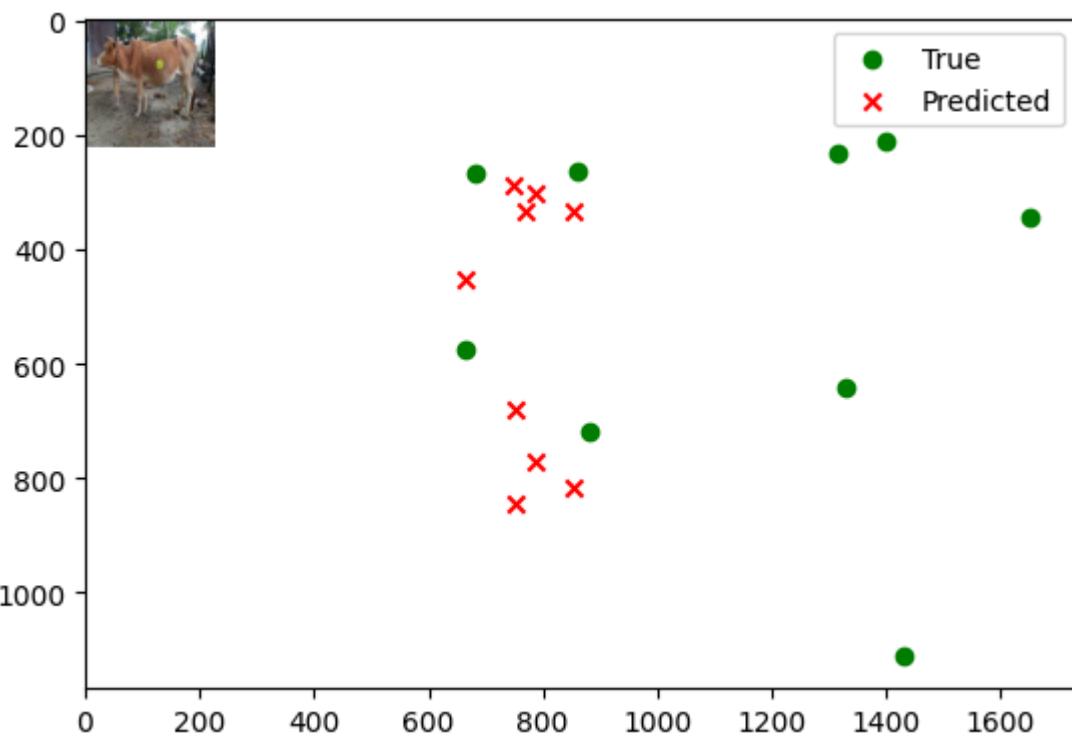


Image number: 347

True keypoints: [1147. 355. 188. 458. 1160. 723. 926. 368. 922. 848. 51
8. 327.
519. 770. 424. 312. 458. 1291.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[754.8185 327.84045]

[643.2278 443.56857]

[738.1786 668.93353]

[833.8455 329.03558]

[834.9686 800.5071]

[765.5796 294.75342]

[768.9695 756.76556]

[728.09265 282.28647]

[732.6262 824.7047]]

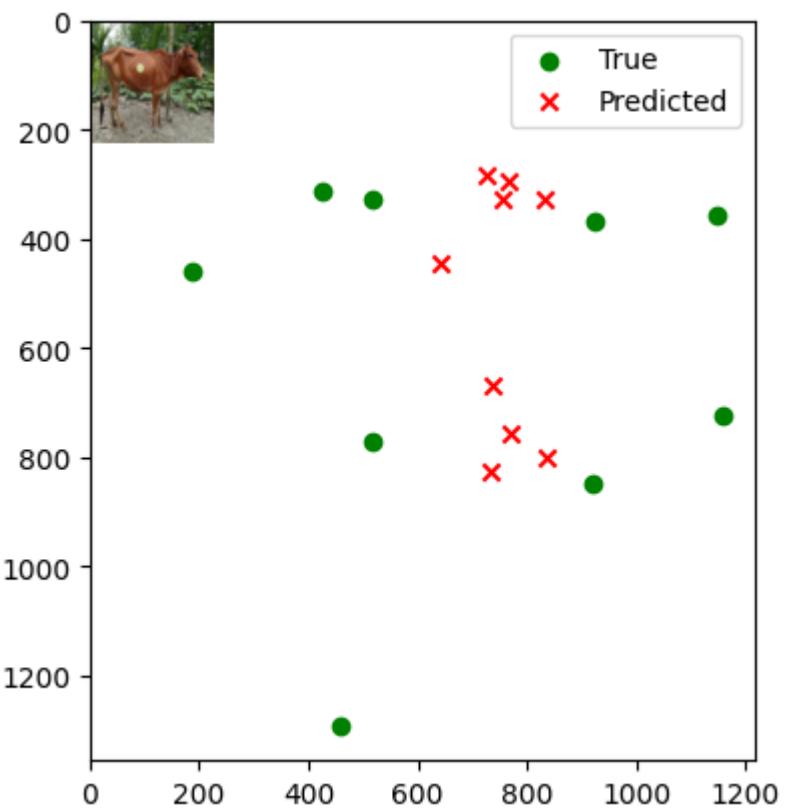


Image number: 348

True keypoints: [1183. 364. 230. 492. 1237. 642. 992. 345. 1007. 813. 56
4. 342.

581. 815. 453. 335. 493. 1319.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[771.71924 334.8713]

[663.0655 453.18338]

[754.1602 682.8071]

[854.5327 336.75375]

[855.63837 819.62463]

[786.36444 302.87024]

[789.6514 773.8731]

[748.8623 290.46622]

[753.39124 845.4217]]

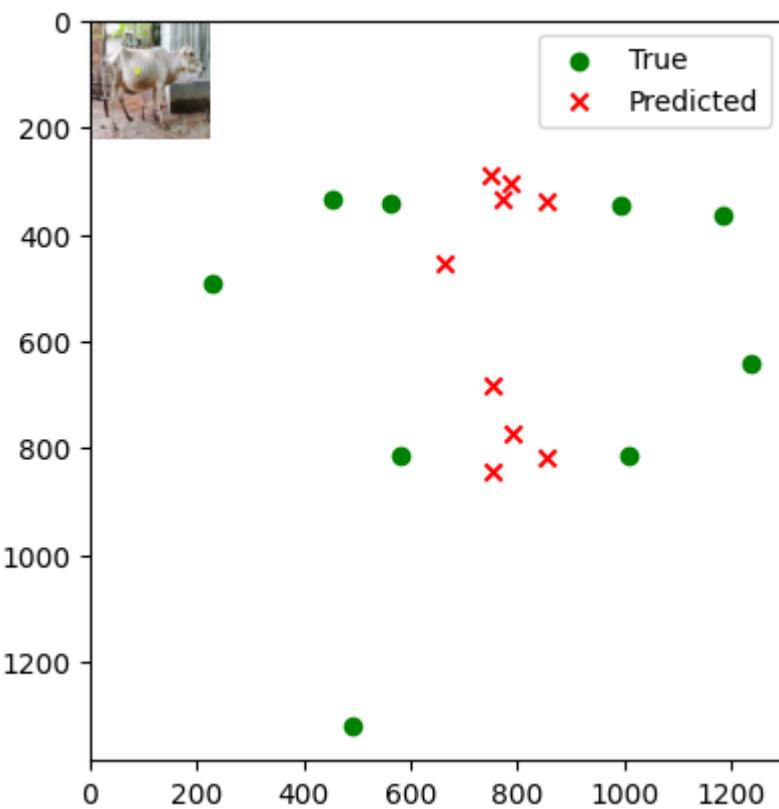


Image number: 349

True keypoints: [661. 182. 1758. 302. 702. 578. 920. 167. 961. 689. 138
3. 134.

1391. 624. 1508. 123. 1548. 1090.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[748.12555 321.73782]

[643.87 437.88748]

[731.0818 660.95166]

[827.8629 324.1234]

[828.8253 794.1874]

[762.2206 290.502]

[765.3038 749.4243]

[726.0882 278.2243]

[730.7302 819.1681]]

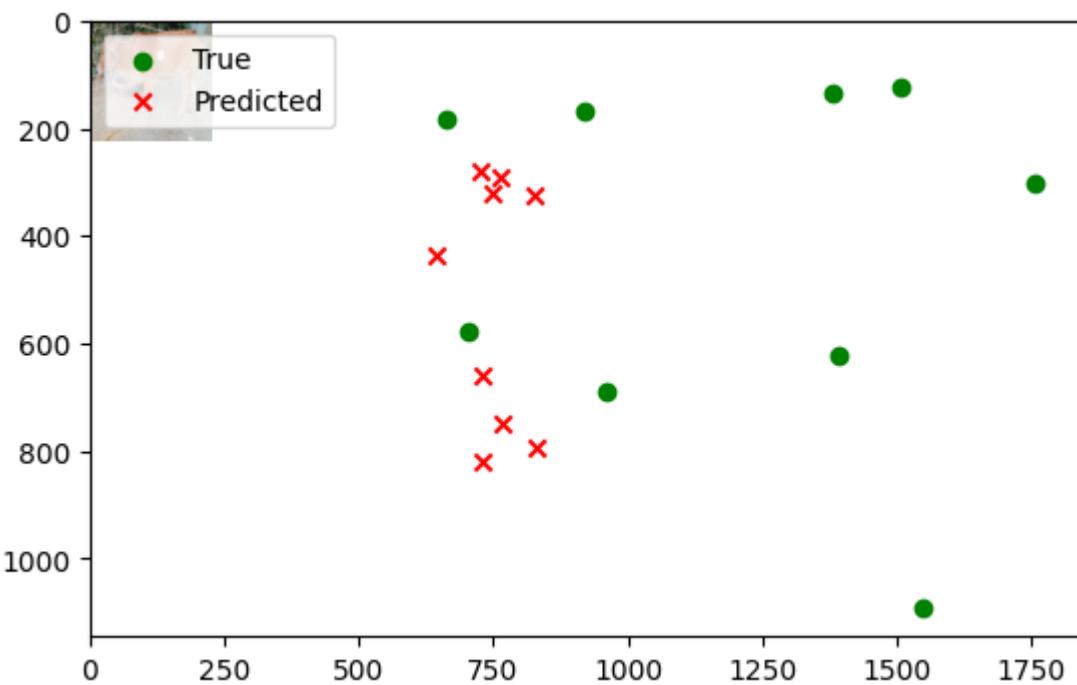


Image number: 350

True keypoints: [1189. 365. 128. 464. 1209. 714. 1001. 393. 992. 882. 51
3. 336.]

516. 818. 387. 318. 408. 1257.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[847.0791 371.3946]

[735.58154 499.17822]

[826.9777 749.1409]

[942.397 373.8648]

[943.5593 902.28076]

[869.4662 339.72287]

[873.093 851.0428]

[829.4396 327.04144]

[833.8776 932.43286]]

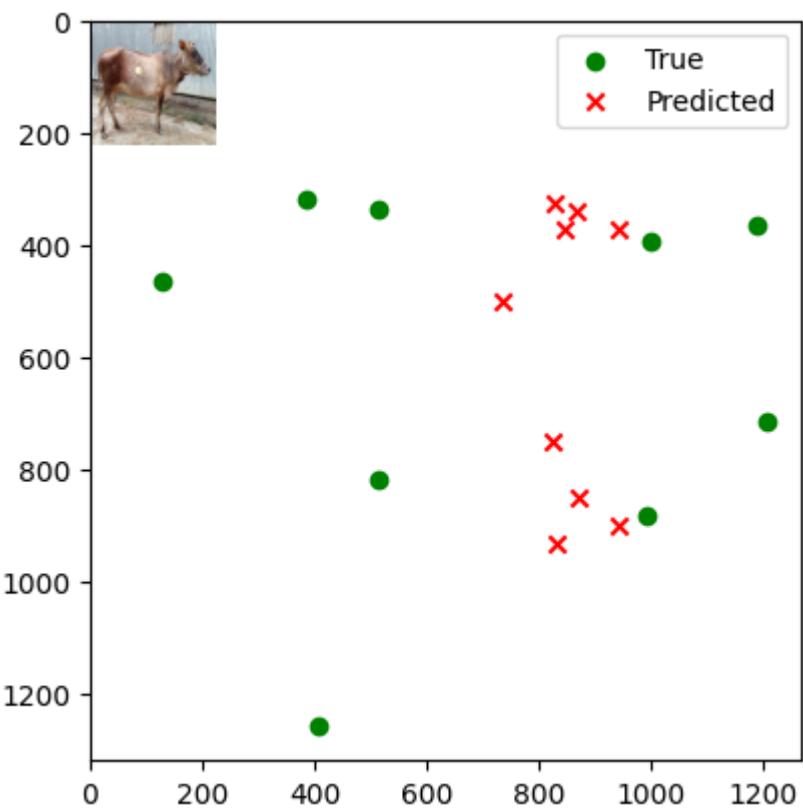


Image number: 351

True keypoints: [1172. 337. 293. 444. 1198. 593. 1005. 329. 1018. 775. 57. 302.

591. 716. 470. 288. 482. 1209.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[778.3019 337.32452]

[668.266 456.84686]

[760.65186 688.60504]

[861.49524 339.23352]

[862.59595 826.43396]

[792.6388 304.7937]

[795.9064 780.3437]

[754.7149 292.21765]

[759.3736 852.31683]]

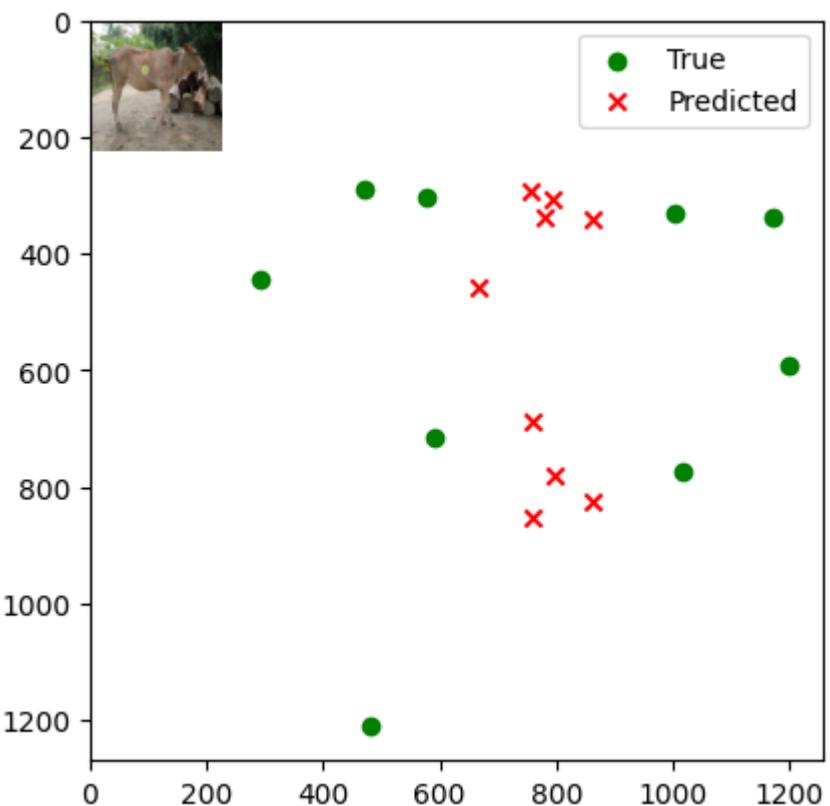


Image number: 352

True keypoints: [649. 250. 1628. 364. 620. 551. 865. 223. 869. 731. 131
7. 191.

1320. 692. 1412. 191. 1429. 1205.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[733.0942 314.3325]

[629.59045 428.63425]

[716.486 647.59406]

[810.36066 316.6303]

[811.4399 777.766]

[745.8351 283.1366]

[748.81036 733.9584]

[710.22144 270.89545]

[714.8674 801.89606]]

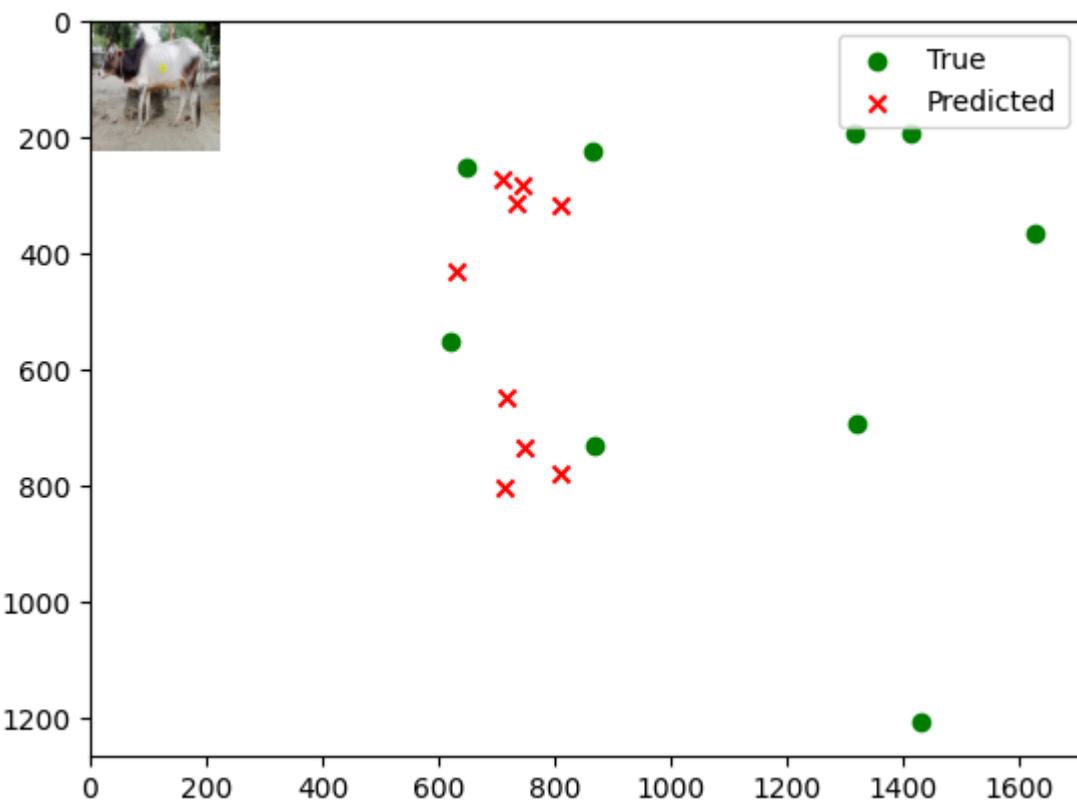


Image number: 353

True keypoints: [663. 385. 1573. 507. 663. 674. 868. 371. 880. 839. 130 7. 385.

1309. 787. 1393. 379. 1381. 1268.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[731.99084 313.40817]

[628.3071 427.74933]

[715.44495 646.5397]

[808.85913 315.7547]

[809.9661 776.4232]

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[708.7529 269.77567]

[713.4725 800.4615]]

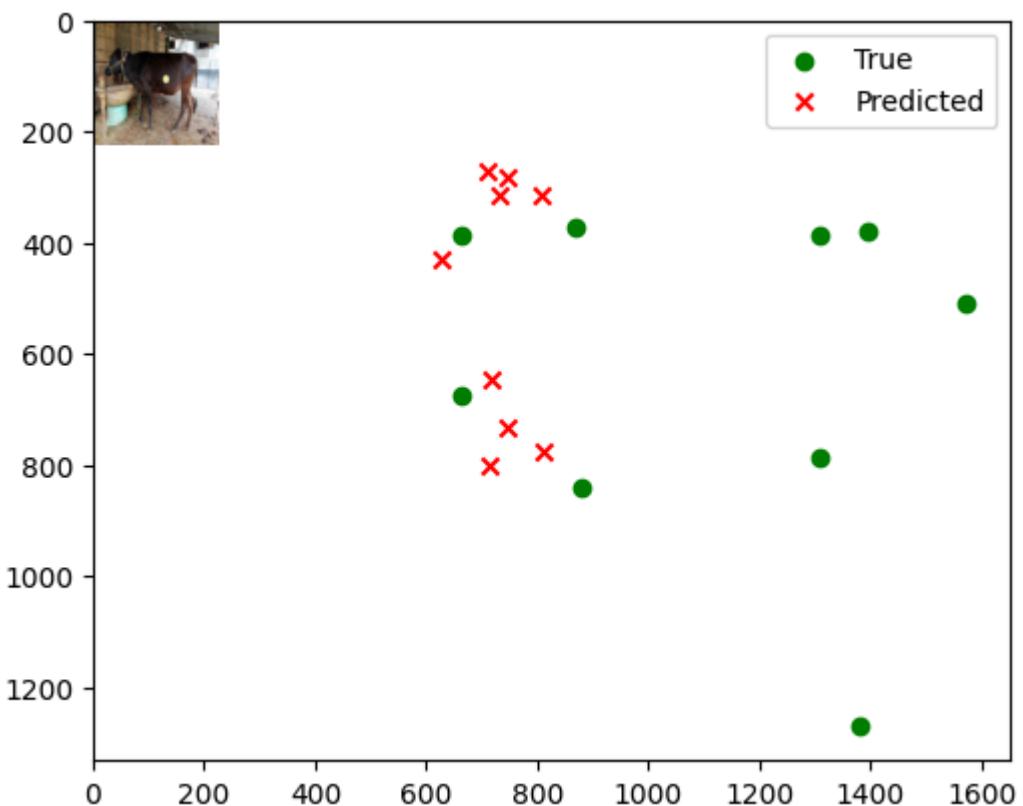


Image number: 354

True keypoints: [738. 280. 1794. 420. 738. 595. 949. 267. 969. 754. 143
4. 251.

1445. 702. 1541. 240. 1558. 1237.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[745.9584 321.62918]

[641.78754 437.044]

[728.87384 659.1859]

[825.6831 323.88345]

[826.969 792.1339]

[760.34595 290.7794]

[763.4291 747.40894]

[724.2639 278.63794]

[728.7046 817.0375]]

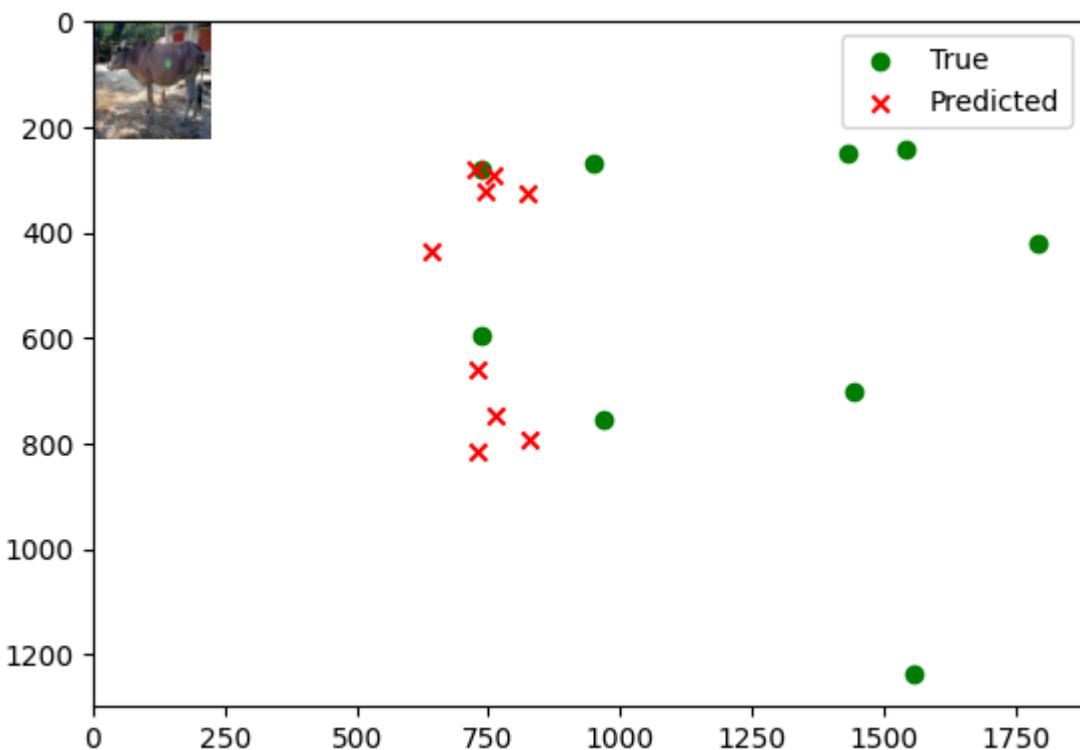


Image number: 355

True keypoints: [678. 245. 1709. 455. 651. 667. 855. 279. 890. 812. 135
9. 270.
1367. 757. 1463. 257. 1490. 1229.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[800.4862 346.2305]
[691.0114 469.39883]
[781.9287 707.3416]
[887.2537 348.76794]
[888.2544 850.62256]
[817.54724 313.89288]
[820.7362 802.62317]
[779.07007 301.18445]
[783.9176 877.98364]]

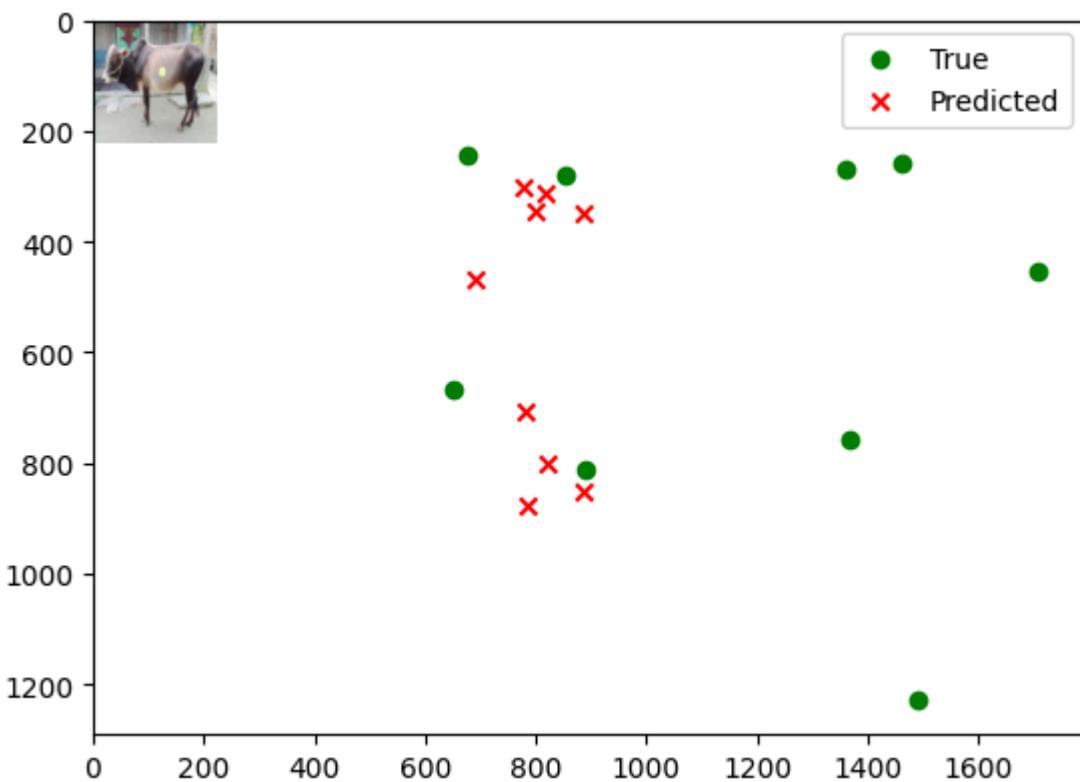


Image number: 356

True keypoints: [1136. 390. 184. 490. 1124. 703. 916. 381. 903. 847. 49. 517. 764. 409. 305. 438. 1274.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[778.1633 337.68457]
[667.1972 456.99582]
[760.61584 688.8036]
[861.10596 339.4389]
[862.13367 826.108]
[791.8908 304.84616]
[795.2351 780.3252]
[753.84265 292.26016]
[758.5239 851.90076]]

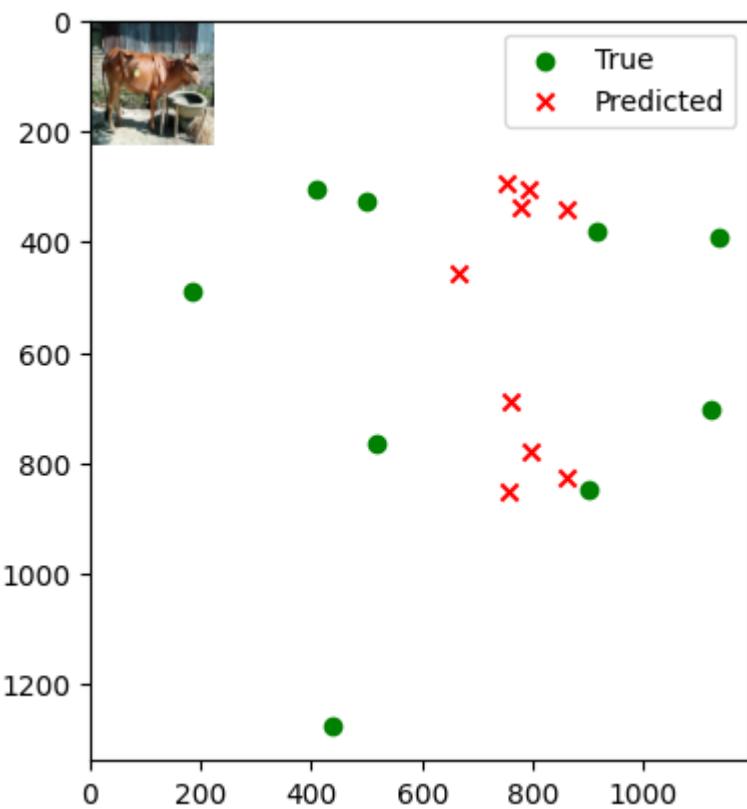


Image number: 357

True keypoints: [1175. 343. 178. 495. 1219. 628. 955. 351. 974. 830. 48. 4. 322.

504. 799. 381. 317. 441. 1272.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[820.51385 357.47803]

[708.87146 482.4397]

[801.4551 725.6996]

[910.58856 359.7283]

[911.5972 872.60974]

[839.03284 324.9804]

[842.4475 823.4963]

[799.67346 312.23242]

[804.3531 900.93506]]

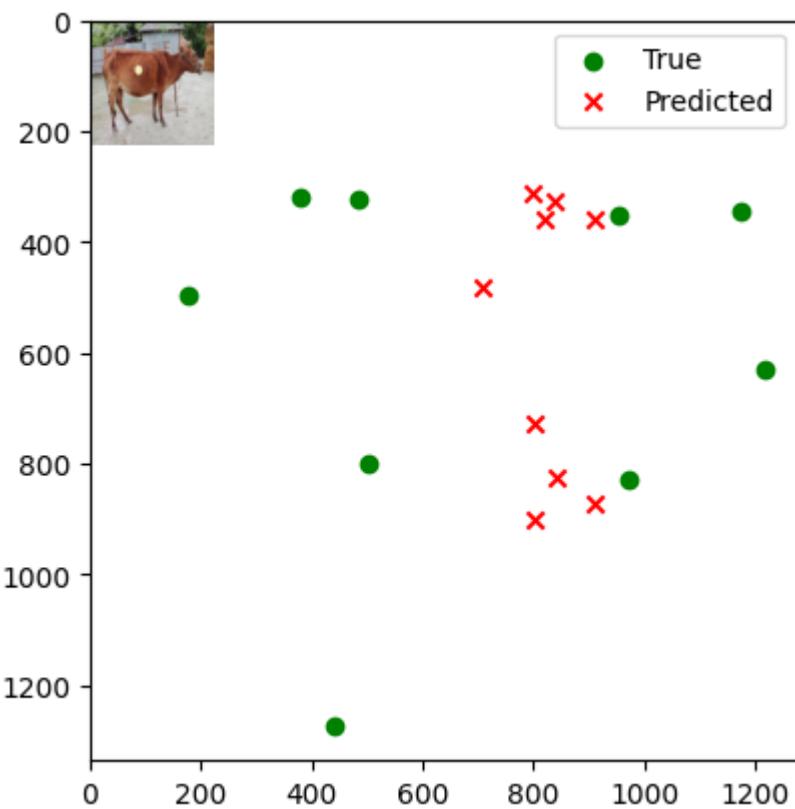


Image number: 358

True keypoints: [1240. 467. 263. 530. 1182. 776. 987. 434. 976. 895. 59
0. 401.

584. 862. 498. 384. 524. 1302.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[843.4321 371.41275]

[729.27344 497.93134]

[823.7015 746.9476]

[937.65295 373.27502]

[938.82306 897.9314]

[863.9759 339.06976]

[867.75714 847.74976]

[823.65564 326.41116]

[827.968 927.5682]]

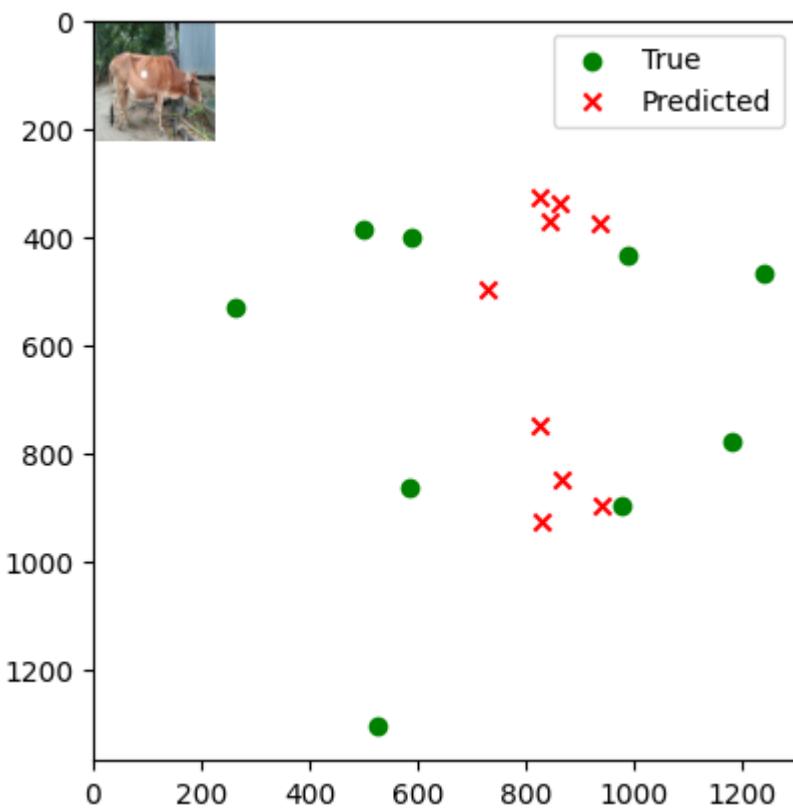


Image number: 359

True keypoints: [1221. 248. 282. 375. 1266. 576. 1037. 256. 1051. 728. 60. 4. 222.

622. 685. 501. 205. 570. 1264.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[681.4723 292.51276]

[579.3567 398.78824]

[666.63416 603.196]

[751.1034 293.92618]

[752.2352 721.7014]

[689.3838 261.53738]

[692.4265 682.0475]

[655.4997 249.83543]

[659.838 743.02405]]

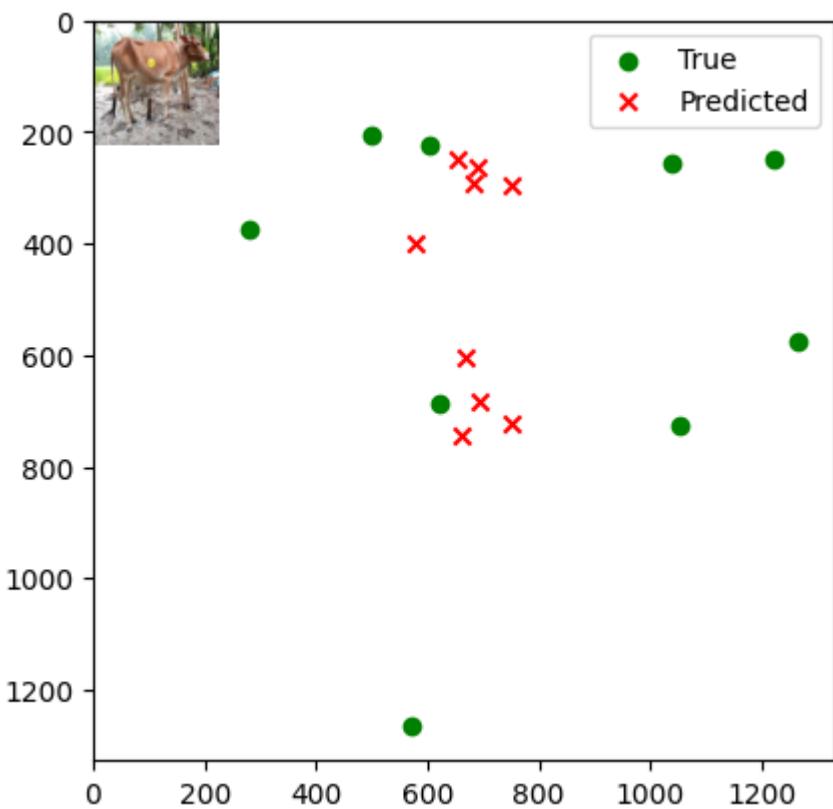


Image number: 360

True keypoints: [593. 266. 1579. 397. 553. 606. 811. 288. 828. 772. 128. 6. 247.

1296. 715. 1372. 234. 1398. 1222.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[776.46265 336.22055]

[670.41986 455.5599]

[758.49243 686.21735]

[860.8672 338.61392]

[861.9474 825.29065]

[793.24646 305.0195]

[796.4811 778.59814]

[756.01544 292.66534]

[760.5644 851.78973]]

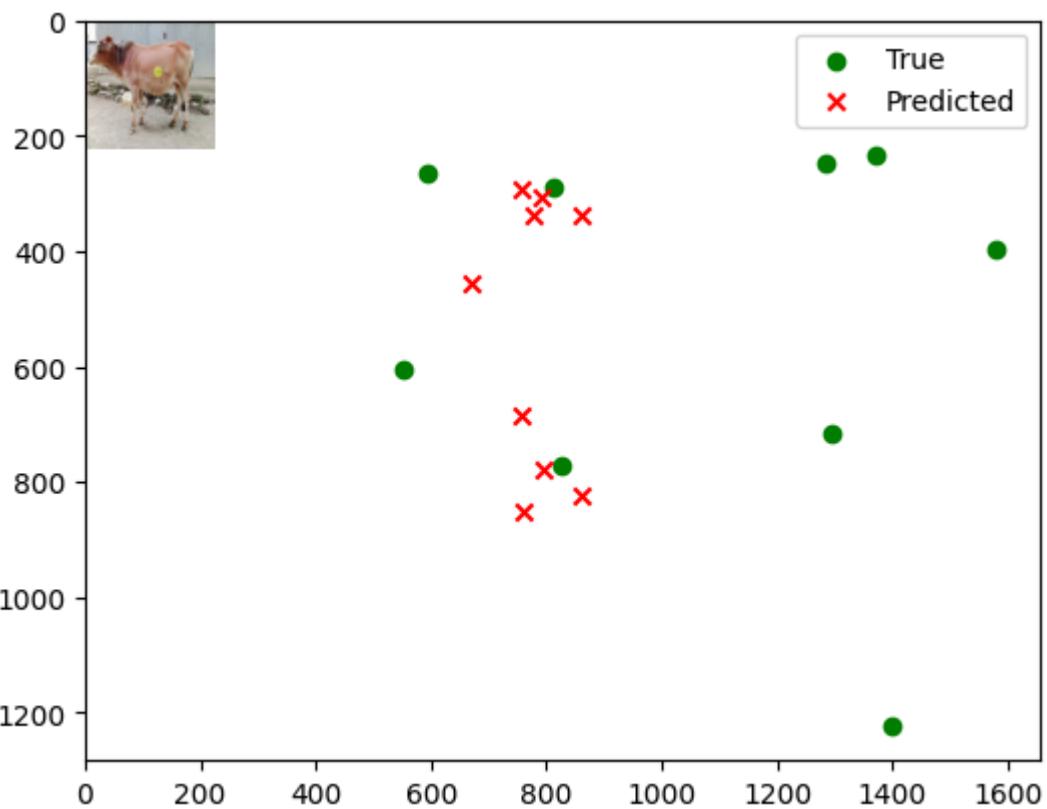


Image number: 361

True keypoints: [731. 419. 1570. 552. 726. 705. 879. 444. 893. 859. 132
4. 418.

1338. 823. 1393. 414. 1404. 1204.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[859.7413 377.50095]

[747.038 506.90262]

[839.2711 760.4054]

[956.839 379.98407]

[957.9819 915.9894]

[882.90076 345.5918]

[886.5395 863.96063]

[842.3035 332.8015]

[846.79956 946.7175]]

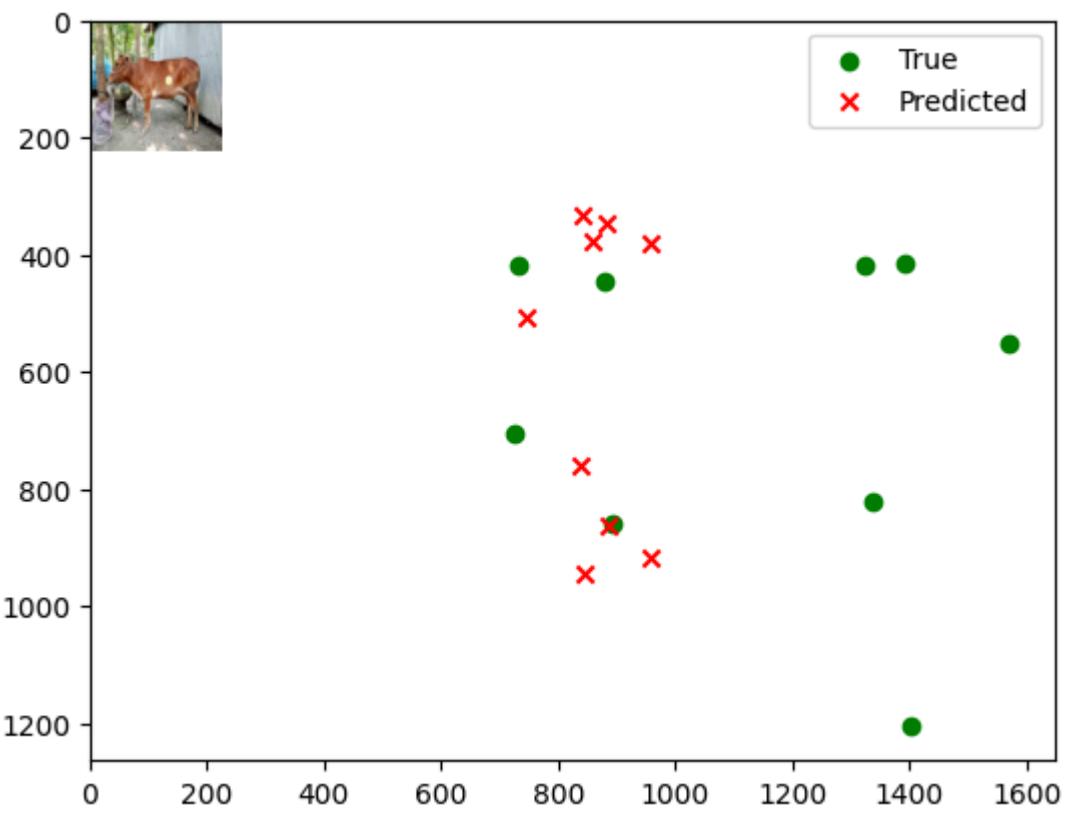


Image number: 362

True keypoints: [706. 245. 1555. 397. 695. 561. 862. 255. 884. 686. 126. 8. 253.

1269. 643. 1355. 235. 1355. 1125.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[741.14 319.94788]

[638.0212 434.43173]

[724.1424 654.99774]

[820.6581 322.1677]

[821.9342 787.1912]

[755.7647 289.4781]

[758.9205 742.71515]

[720.0084 277.46686]

[724.3501 812.01953]]

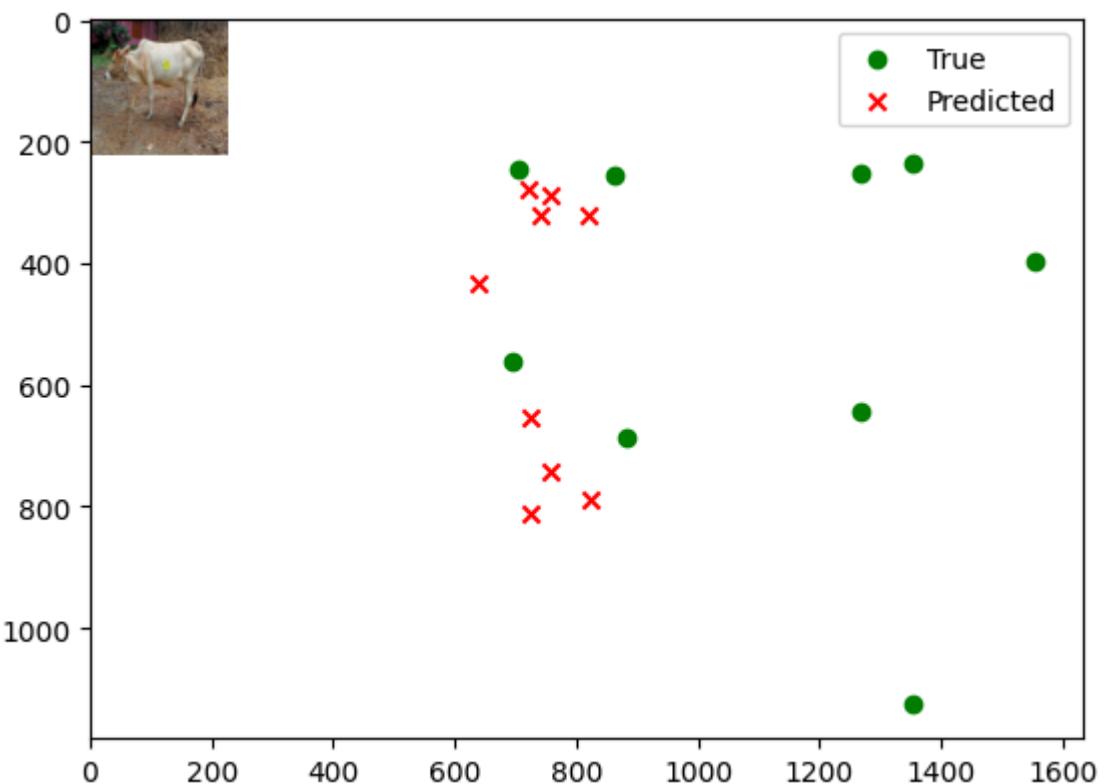


Image number: 363

True keypoints: [701. 230. 1783. 346. 641. 596. 916. 258. 911. 771. 144
1. 189.

1421. 716. 1535. 175. 1478. 1223.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[742.9652 319.7351]

[639.01636 434.99854]

[726.08484 656.59186]

[822.0739 322.00204]

[822.9656 788.6303]

[756.6717 288.51776]

[759.7625 744.33716]

[720.74115 276.35153]

[725.40924 813.3876]]

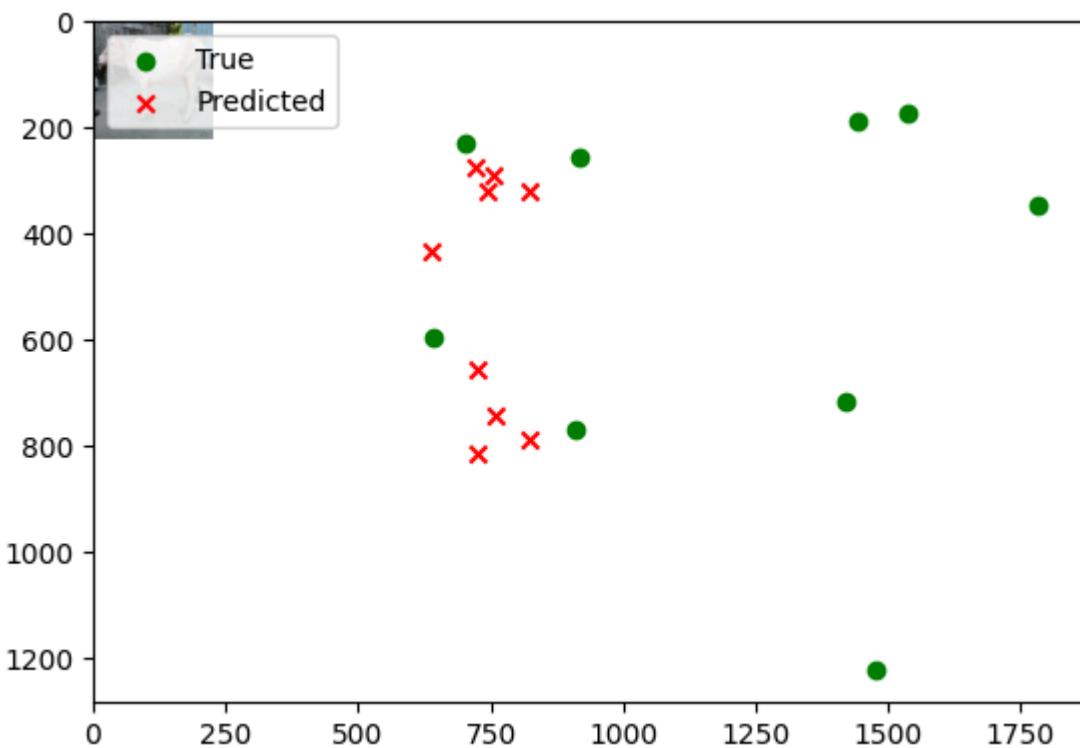


Image number: 364

True keypoints: [755. 336. 1591. 389. 692. 619. 905. 326. 912. 756. 135
9. 282.

1356. 691. 1416. 274. 1426. 1196.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[797.74304 346.03943]

[689.1651 468.29074]

[779.18964 705.0803]

[884.7836 348.4501]

[885.87085 848.1105]

[815.4078 314.20282]

[818.6495 800.1286]

[777.1455 301.6348]

[781.8118 875.482]]

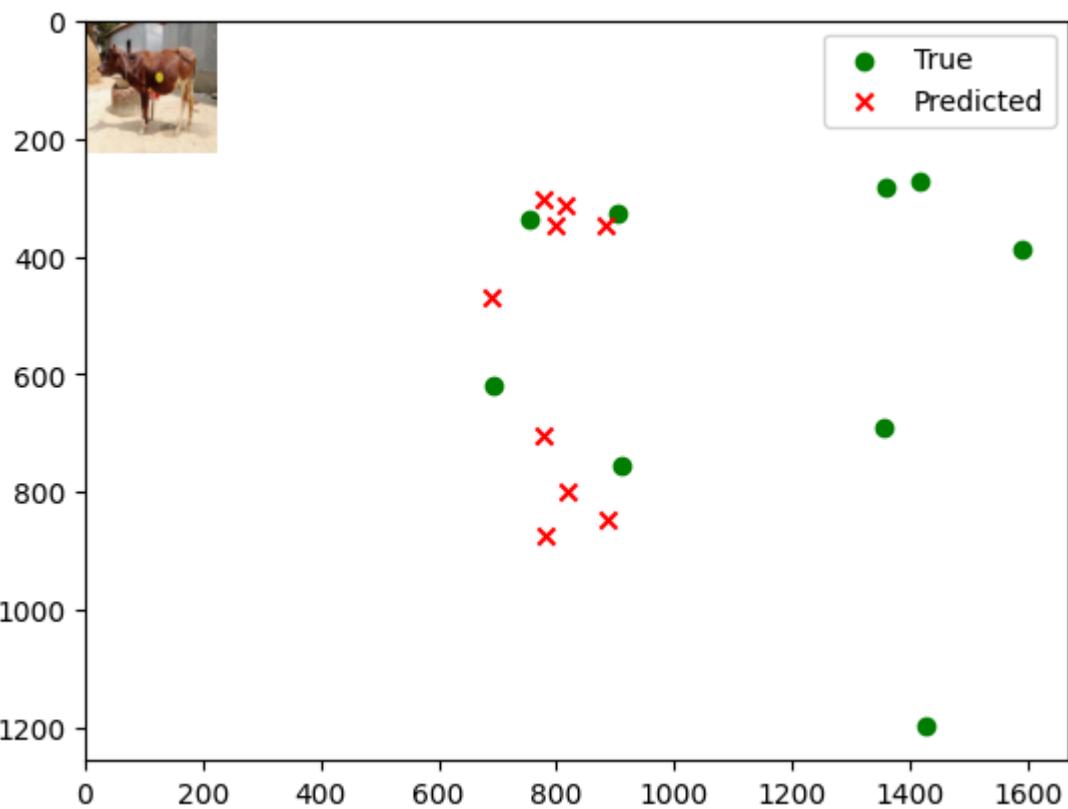


Image number: 365

True keypoints: [703. 300. 1697. 365. 704. 601. 910. 294. 933. 767. 135
5. 229.

1373. 710. 1460. 206. 1501. 1182.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[786.86383 340.83585]

[679.374 461.70197]

[768.6163 695.41675]

[872.4009 343.24374]

[873.5273 836.361]

[803.9017 309.25302]

[807.12854 789.0421]

[766.1372 296.7595]

[770.7721 863.2384]]

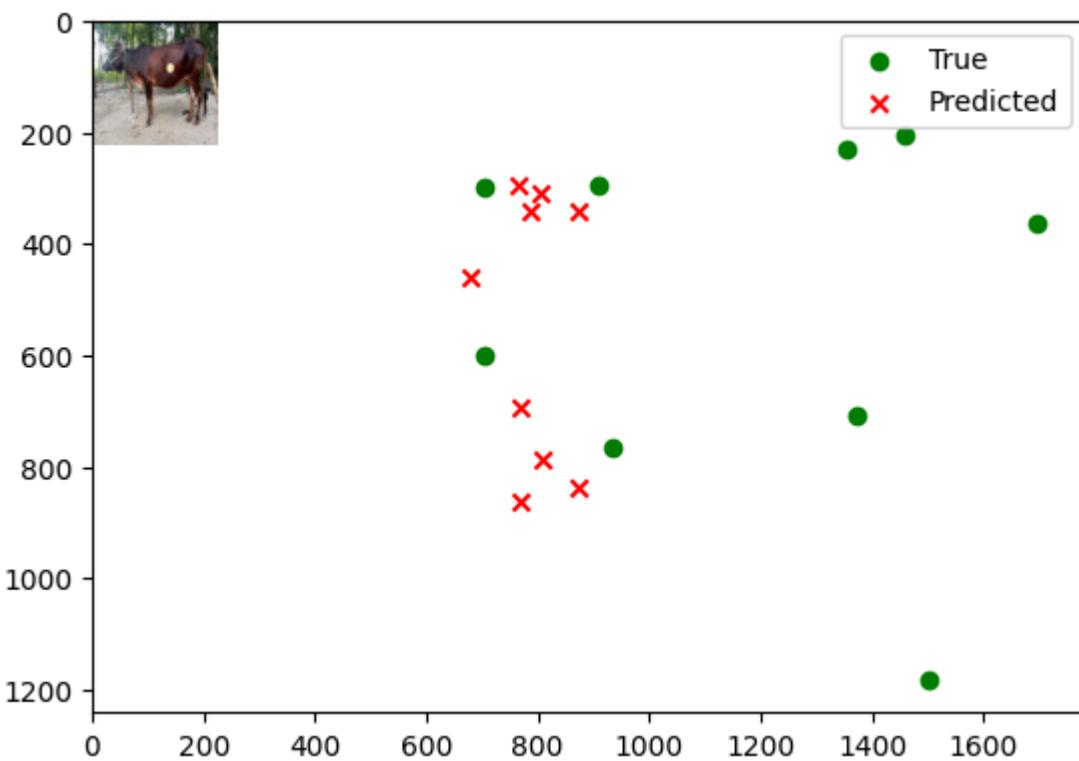


Image number: 366

True keypoints: [680. 427. 1611. 493. 741. 718. 902. 392. 938. 835. 129. 7. 377.

1322. 795. 1379. 368. 1416. 1326.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[878.17834 387.8365]

[764.8826 518.92474]

[857.0877 777.02045]

[978.91583 390.28497]

[980.132 936.53284]

[903.70764 356.3691]

[907.5835 883.28284]

[862.55646 343.66058]

[866.77844 968.4997]]

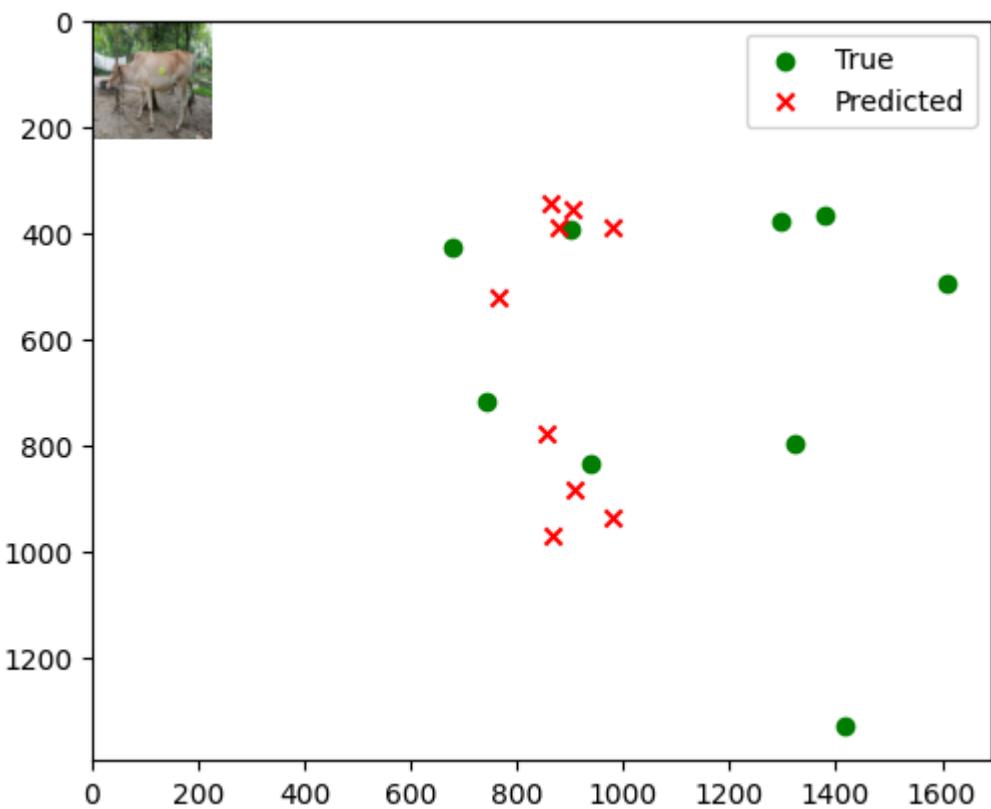


Image number: 367

True keypoints: [1277. 285. 411. 436. 1292. 719. 1068. 330. 1070. 766. 67. 306.

685. 717. 595. 297. 621. 1143.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[843.8805 368.16608]

[730.76184 496.3465]

[824.0557 746.1485]

[937.31946 370.64795]

[938.4317 897.9966]

[864.27515 335.47964]

[867.6885 847.1789]

[824.0175 322.57608]

[828.7909 927.4828]]

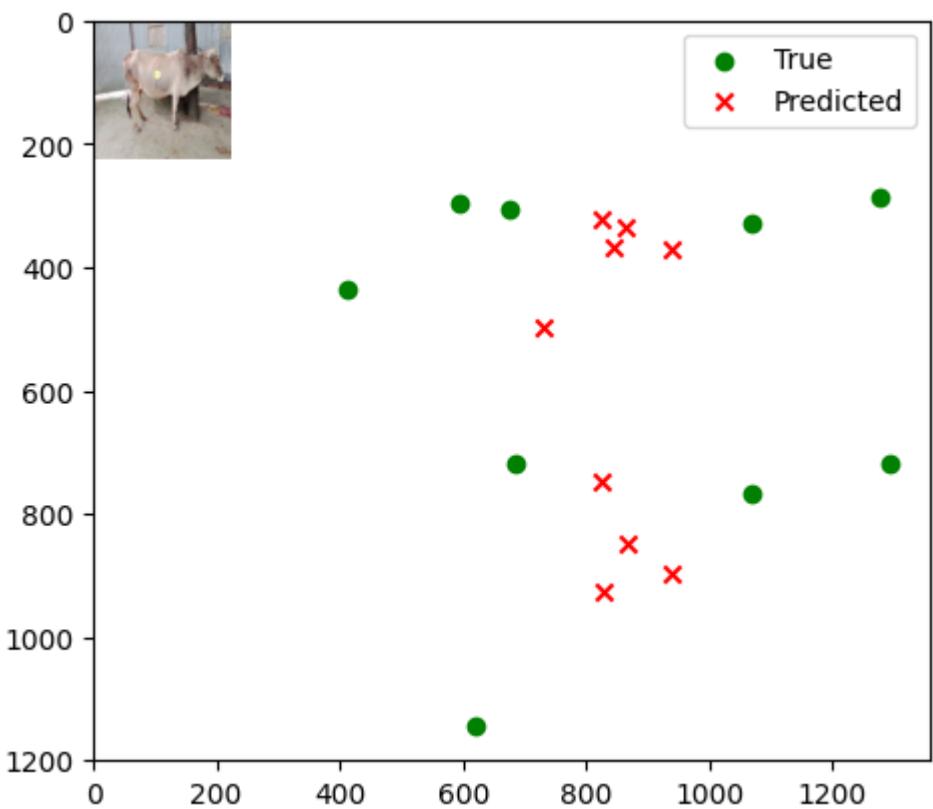


Image number: 368

True keypoints: [771. 366. 1698. 415. 764. 703. 983. 361. 1004. 828. 142
3. 300.

1437. 734. 1482. 292. 1524. 1337.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[826.3199 361.06512]

[716.1006 486.33975]

[806.8516 730.67566]

[918.2772 363.4646]

[919.41785 879.5552]

[846.838 329.4316]

[850.3399 829.7037]

[807.5824 316.8449]

[812.06537 908.57294]]

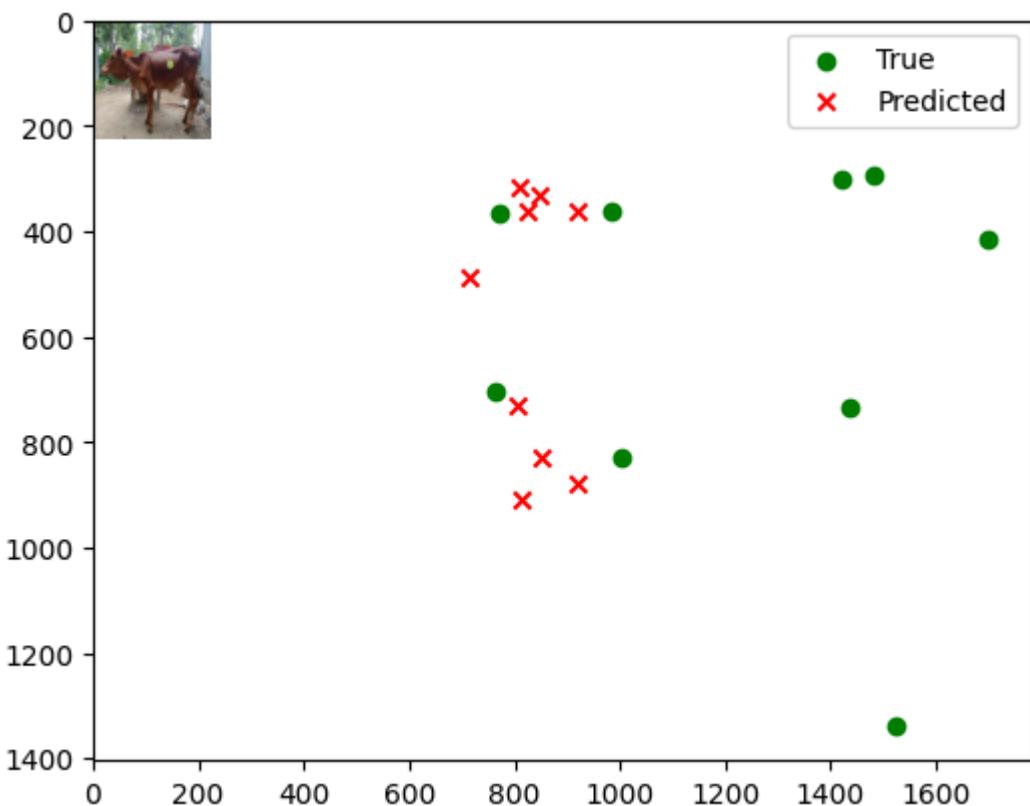


Image number: 369

True keypoints: [1118. 312. 317. 369. 1216. 547. 979. 291. 991. 711. 62. 279.

636. 723. 506. 275. 541. 1191.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[784.2226 339.57227]

[675.39026 460.05615]

[766.20154 693.3222]

[868.73364 341.77533]

[869.86945 833.15466]

[800.0216 307.45166]

[803.20984 786.26874]

[762.1124 294.90244]

[766.8002 859.6051]]

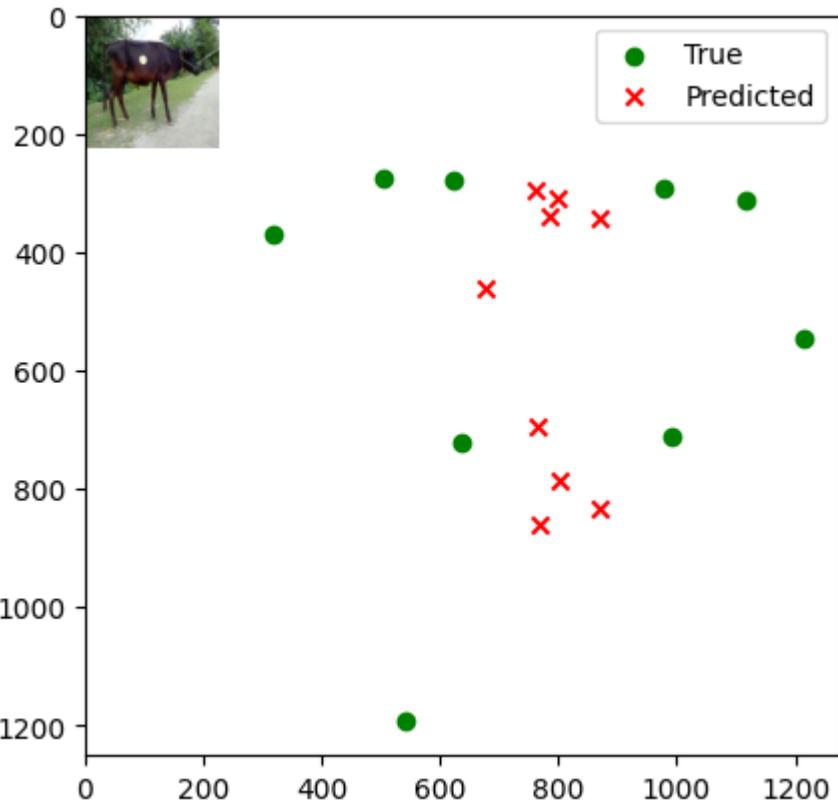


Image number: 370

True keypoints: [716. 359. 1687. 469. 712. 673. 922. 351. 938. 808. 136
3. 328.

1375. 754. 1470. 319. 1482. 1234.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[807.7624 350.81146]

[698.4148 474.39908]

[788.9227 713.97156]

[896.2884 353.28098]

[897.3812 858.98517]

[826.1693 318.90552]

[829.48694 810.33624]

[787.54205 306.2817]

[792.19305 886.87036]]

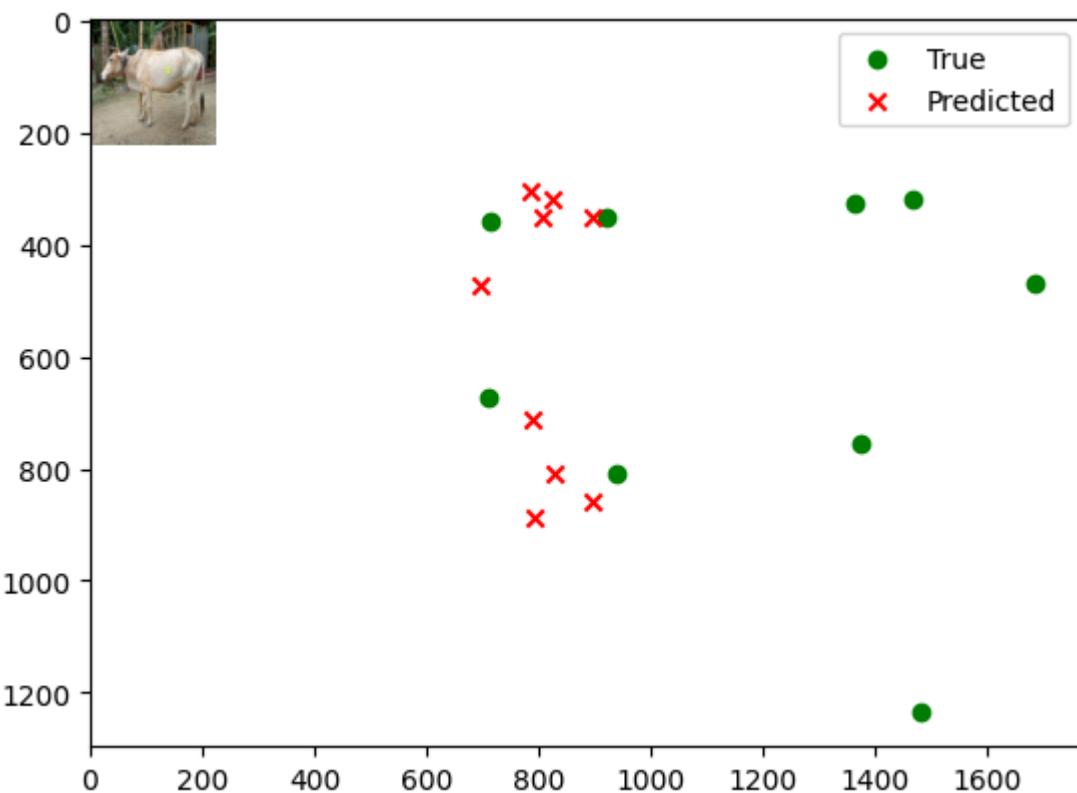


Image number: 371

True keypoints: [614. 310. 1548. 455. 606. 600. 806. 327. 815. 773. 124. 3. 314.

1255. 722. 1343. 309. 1363. 1200.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[772.8249 334.1038]

[666.0123 453.13055]

[754.9937 682.9775]

[856.12524 336.4184]

[857.328 821.04535]

[788.619 302.55377]

[791.79565 774.6713]

[751.3564 290.1641]

[755.975 847.16046]]

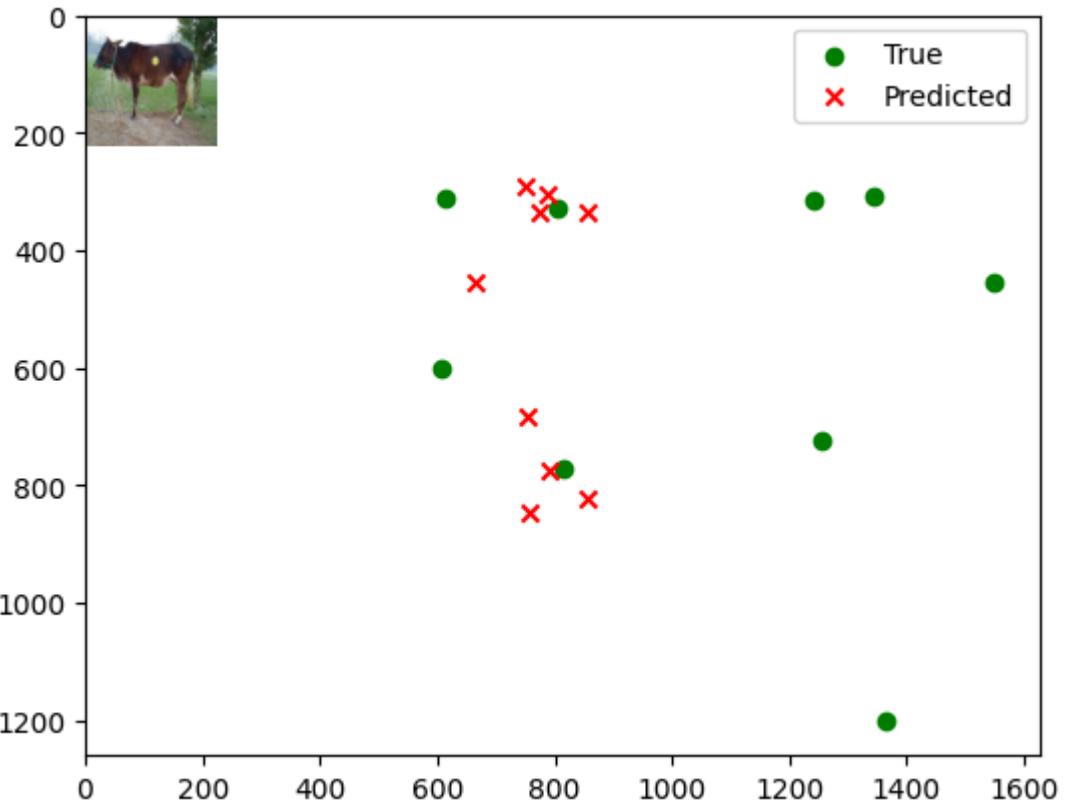


Image number: 372

True keypoints: [791. 254. 1782. 367. 783. 577. 1011. 250. 1027. 716. 144
8. 220.

1448. 702. 1553. 208. 1586. 1232.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[773.56476 334.9001]

[667.7462 453.85602]

[755.68744 683.665]

[857.5706 337.2875]

[858.6924 822.17395]

[790.1601 303.78836]

[793.40607 775.6625]

[753.07275 291.46448]

[757.5836 848.5414]]

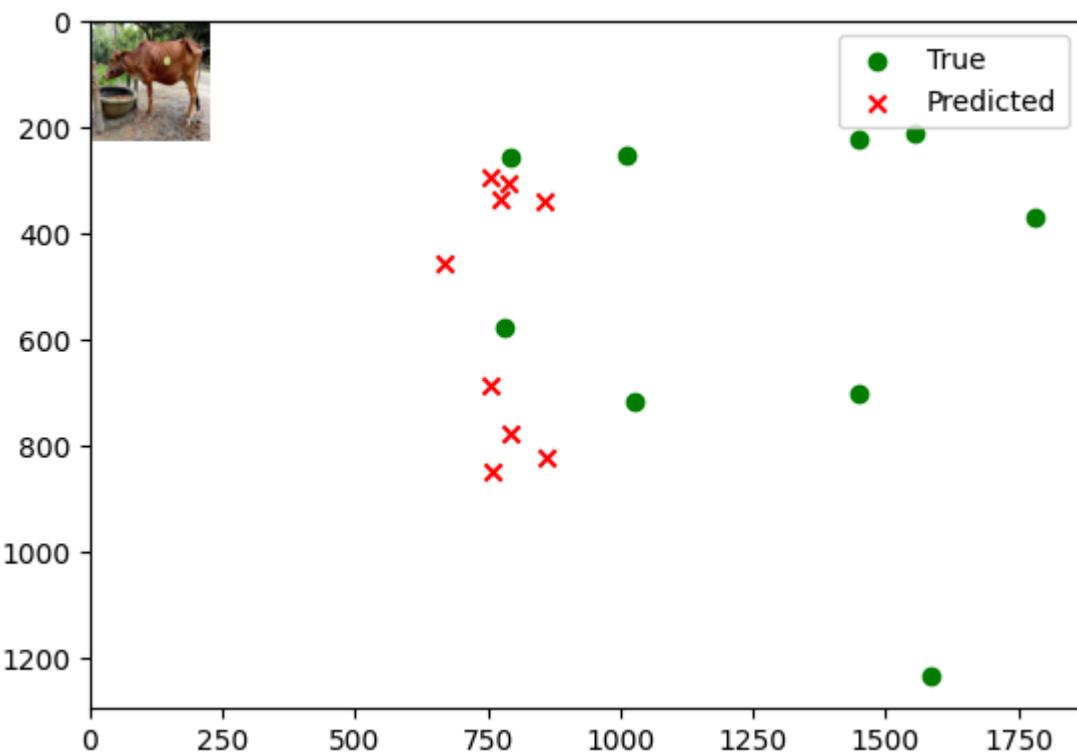


Image number: 373

True keypoints: [739. 362. 1622. 465. 707. 661. 914. 373. 924. 808. 133
1. 341.

1337. 753. 1409. 334. 1417. 1200.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[832.61743 364.01508]

[721.8255 490.16656]

[812.9756 736.25684]

[925.4826 366.44147]

[926.6392 886.37805]

[853.5671 332.26324]

[857.06525 836.1225]

[814.0149 319.59982]

[818.5138 915.7023]]

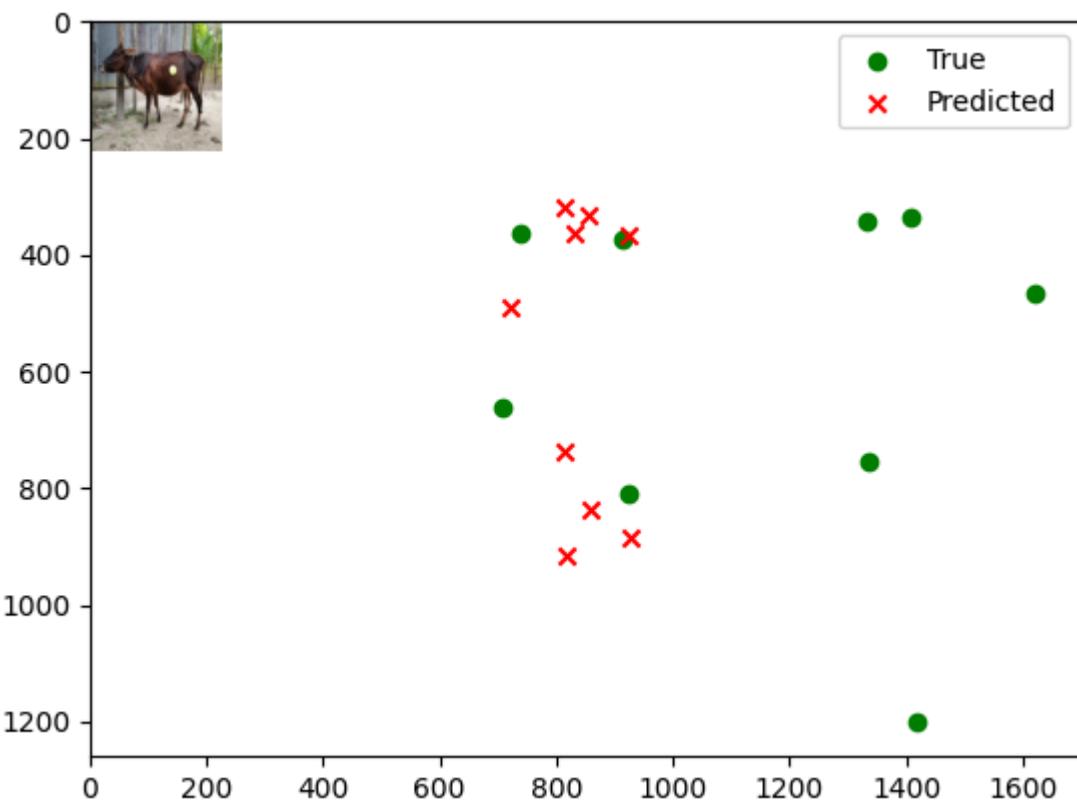


Image number: 374

True keypoints: [742. 302. 1711. 470. 675. 701. 915. 356. 931. 861. 140
2. 330.

1416. 764. 1499. 322. 1550. 1305.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[823.5571 358.75327]

[712.89777 484.16388]

[804.2556 728.0793]

[914.4979 361.21423]

[915.60657 876.1914]

[843.1488 326.69244]

[846.553 826.57574]

[803.8705 313.97842]

[808.51825 904.8833]]

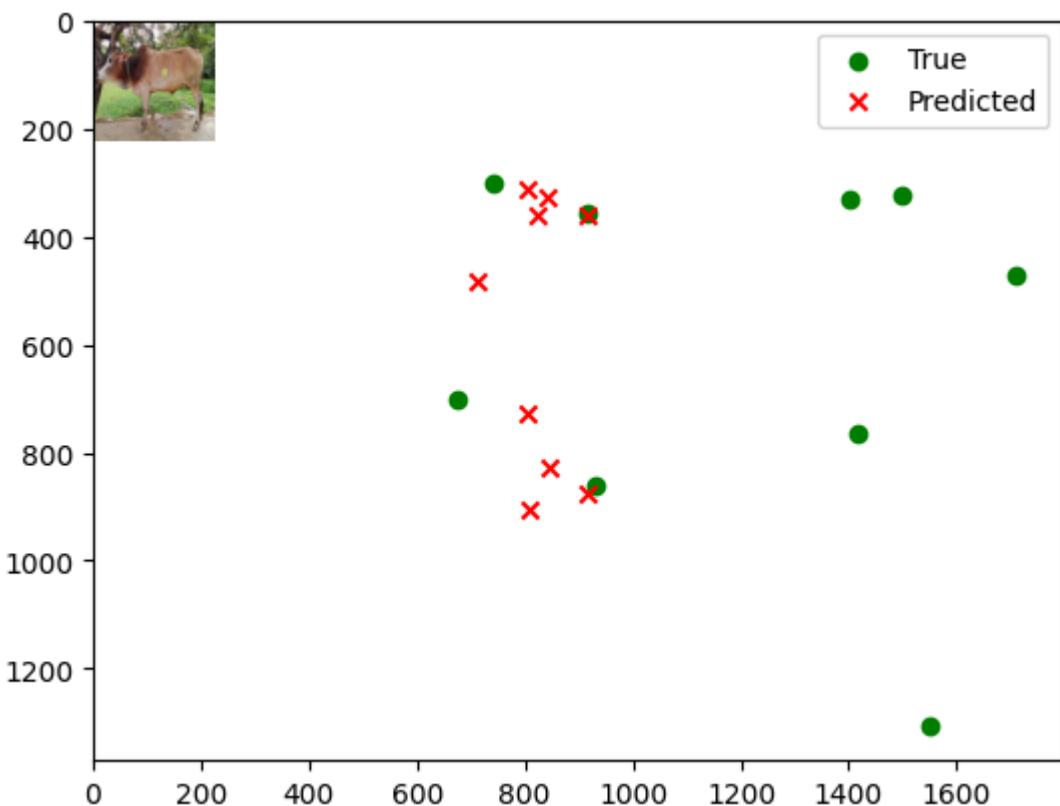


Image number: 375

True keypoints: [735. 237. 1623. 441. 669. 585. 863. 279. 884. 741. 130
3. 275.

1298. 711. 1412. 262. 1366. 1194.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[774.3325 335.84503]

[668.64374 454.6169]

[756.3781 684.4393]

[858.7473 338.172]

[859.9695 823.2105]

[791.3538 304.9801]

[794.6396 776.5858]

[754.2483 292.7289]

[758.6509 849.6681]]

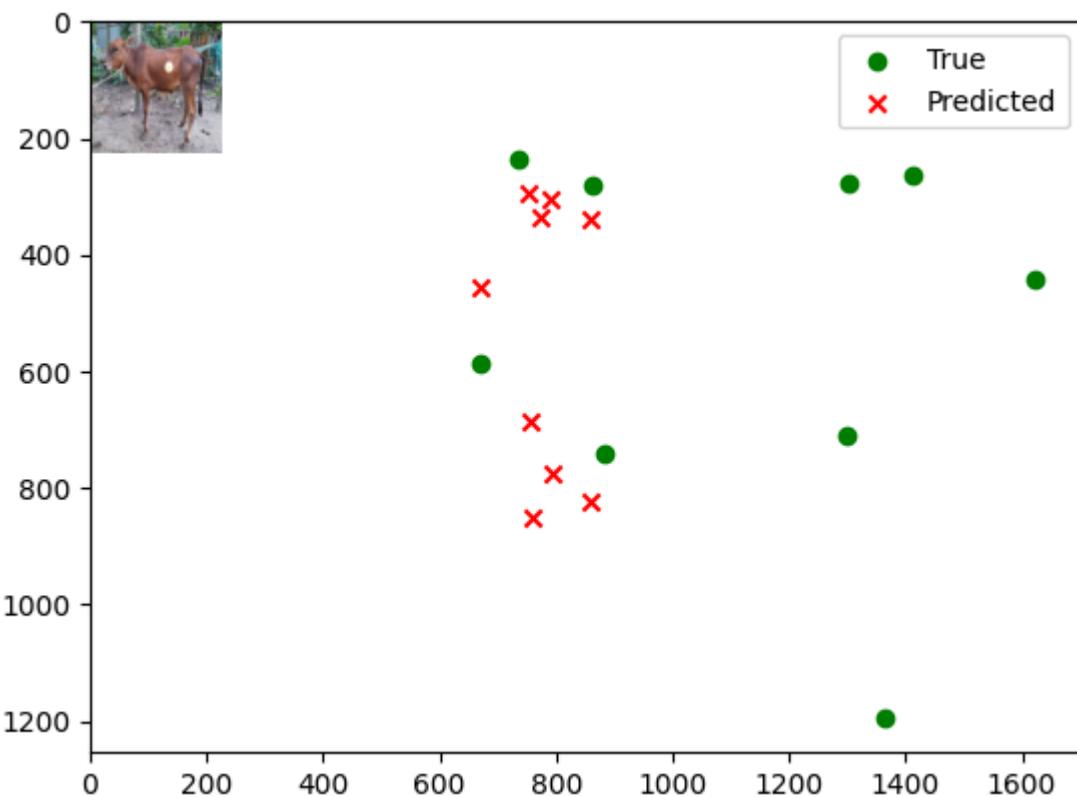


Image number: 376

True keypoints: [1202. 337. 222. 444. 1242. 646. 1012. 347. 1007. 818. 52
3. 293.

540. 729. 436. 279. 475. 1179.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[769.52246 333.60977]

[662.66864 451.69458]

[751.84906 680.4664]

[852.5772 335.71216]

[853.7651 817.6017]

[785.1047 302.20197]

[788.36285 771.62244]

[747.94604 289.9018]

[752.4175 843.5558]]

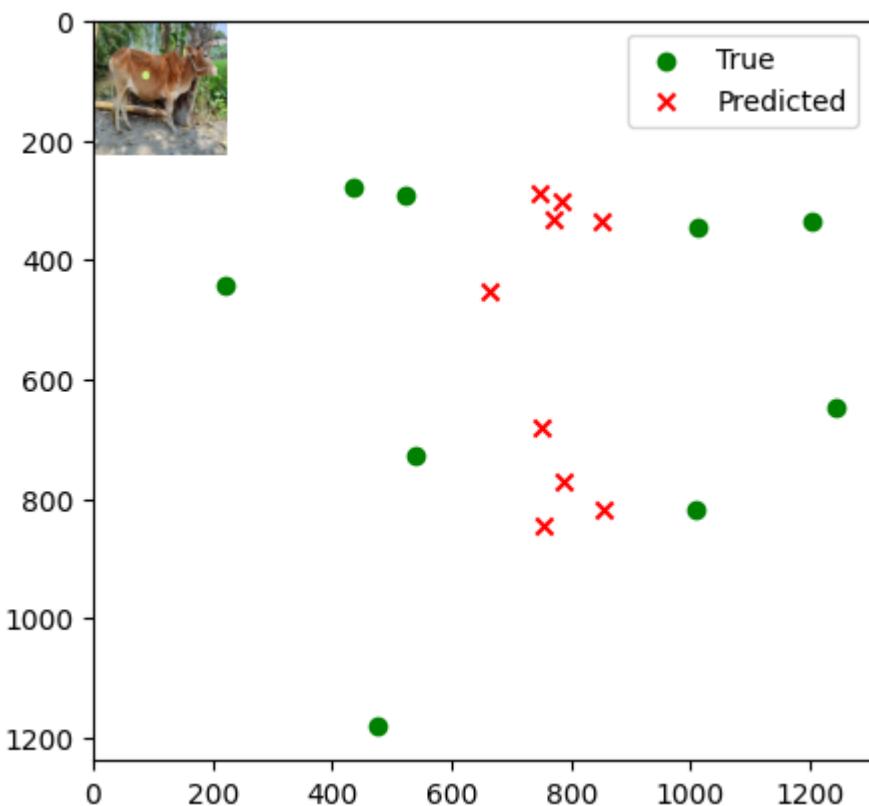


Image number: 377

True keypoints: [744. 296. 1599. 387. 731. 634. 903. 325. 921. 778. 130
2. 285.

1310. 707. 1411. 274. 1416. 1257.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[777.9553 336.856]

[671.40173 456.44174]

[759.9605 687.55896]

[862.3977 339.22876]

[863.56244 826.8496]

[794.6333 305.56595]

[797.8618 780.0467]

[757.2852 293.1762]

[761.81836 853.3357]]

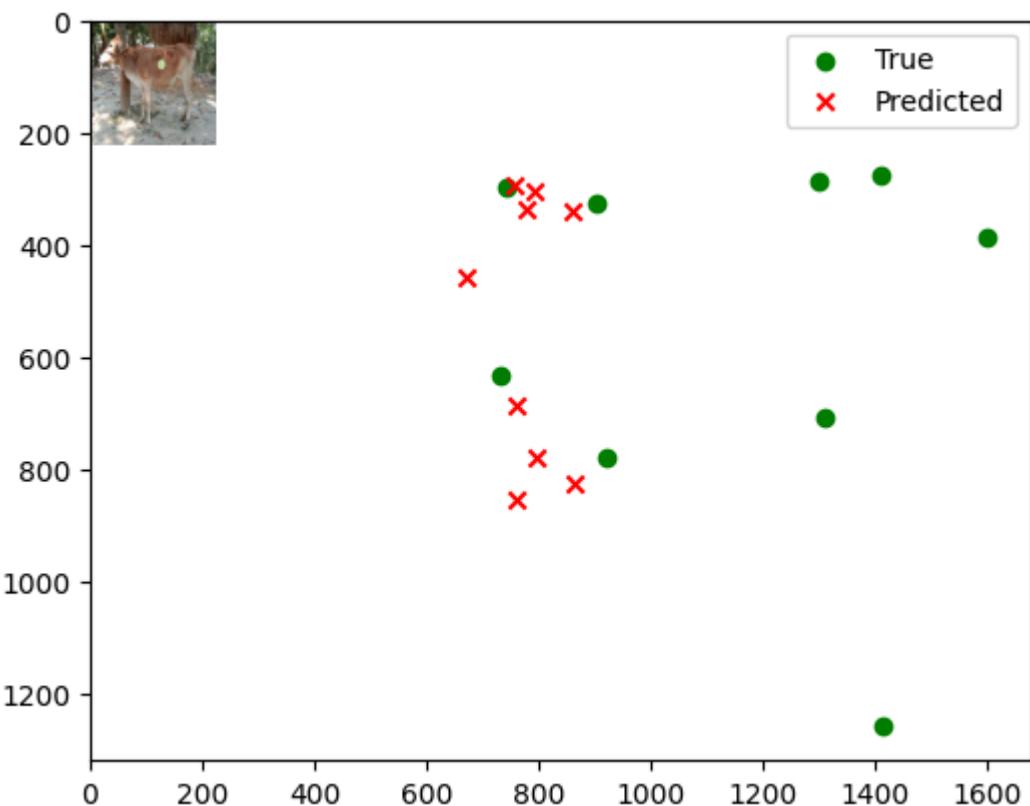


Image number: 378

True keypoints: [783. 205. 1738. 392. 727. 545. 982. 229. 959. 732. 143 0. 222.

1421. 685. 1490. 217. 1446. 1195.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[730.848 313.7409]

[626.737 427.54883]

[714.4078 645.91974]

[807.6421 315.88257]

[808.71246 775.23474]

[742.9777 282.3854]

[746.0041 731.8059]

[707.3416 270.149]

[711.97876 799.16205]]

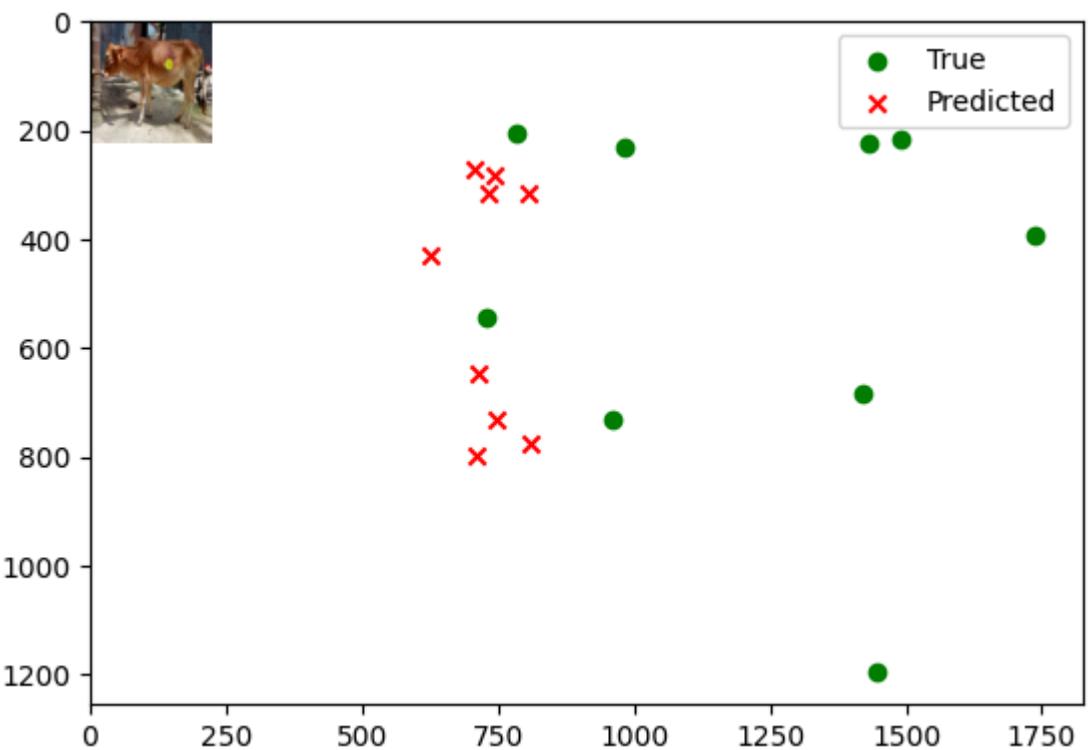


Image number: 379

True keypoints: [707. 301. 1756. 366. 639. 655. 905. 277. 927. 817. 144
1. 218.

1448. 680. 1534. 213. 1554. 1257.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[773.9343 334.04355]
[667.28375 453.55817]
[756.13446 683.8479]
[857.29065 336.48178]
[858.3534 822.1428]
[789.71765 302.43057]
[792.87646 775.7013]
[752.46674 289.9618]
[757.1451 848.3268]]

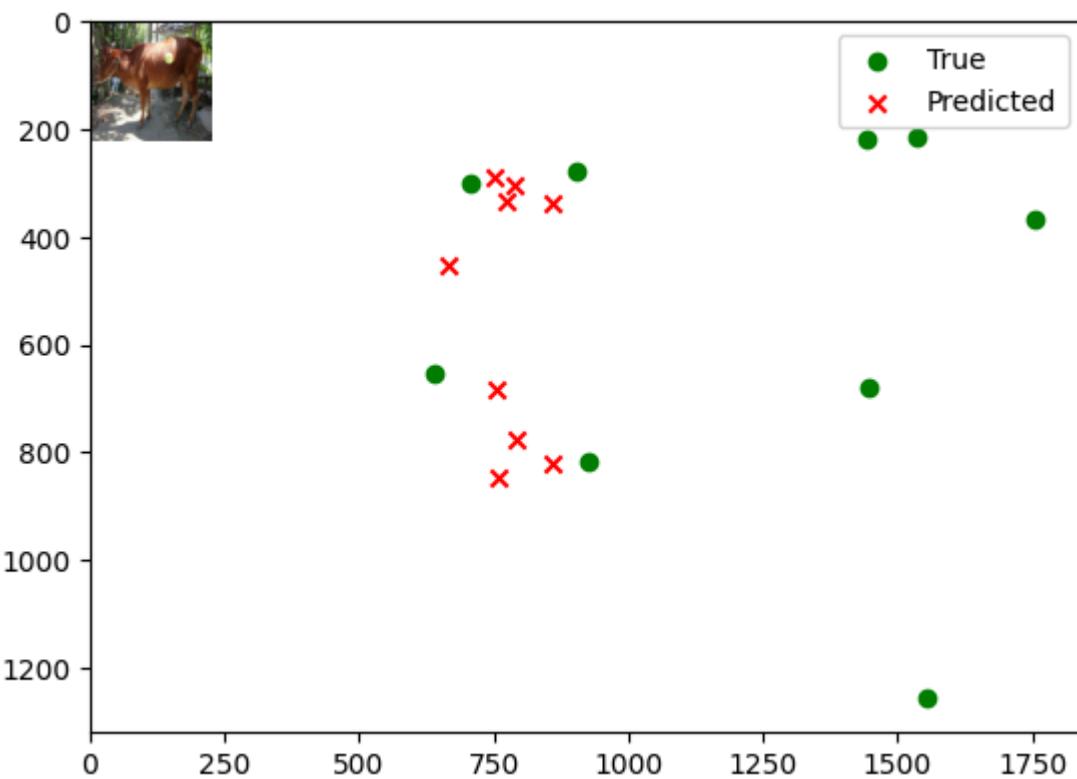


Image number: 380

True keypoints: [685. 216. 1643. 334. 616. 562. 879. 247. 898. 737. 131
9. 207.

1325. 671. 1426. 197. 1445. 1199.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[775.44116 334.80875]

[668.9225 454.48145]

[757.5774 685.1725]

[859.1471 337.2856]

[860.12195 823.8059]

[791.464 303.20642]

[794.6381 777.28107]

[754.18164 290.75098]

[758.879 850.1198]]

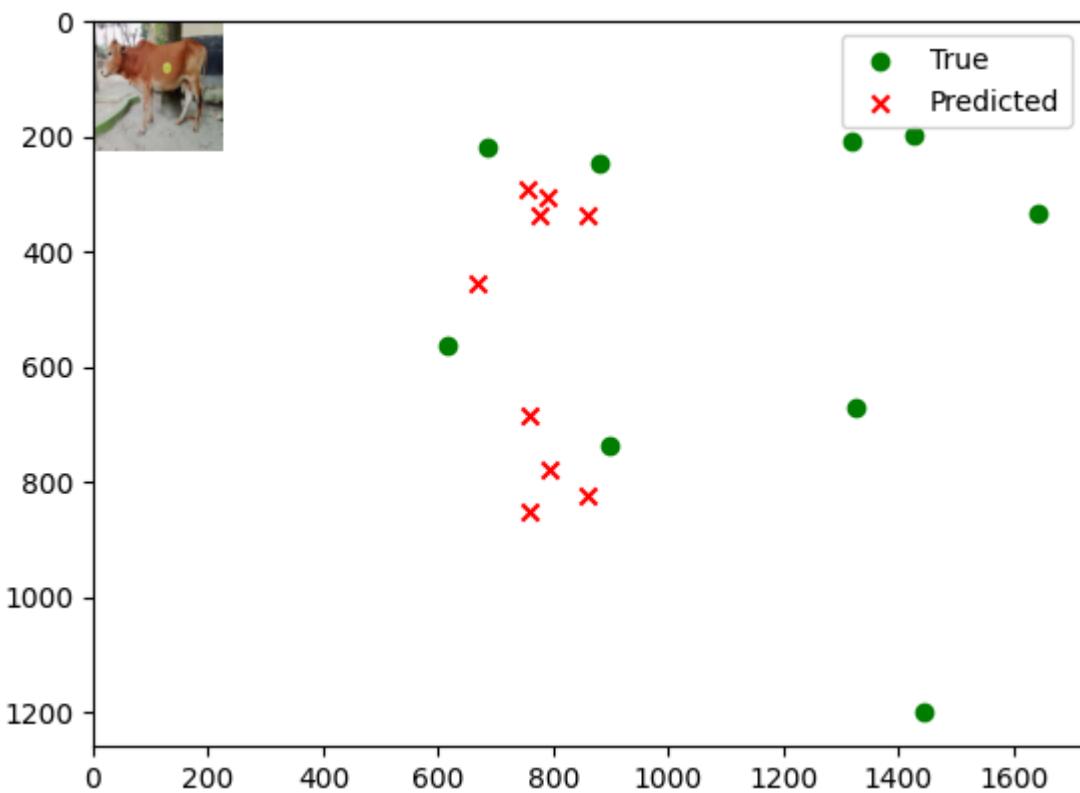


Image number: 381

True keypoints: [693. 198. 1625. 372. 642. 574. 854. 231. 873. 730. 130
3. 220.
1319. 650. 1399. 209. 1417. 1163.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[757.6546 325.78238]

[651.9803 443.39316]

[740.3657 669.3613]

[838.3369 328.19846]

[839.25305 804.2167]

[771.8605 294.05945]

[774.9141 758.99005]

[735.1914 281.63974]

[739.9597 829.56604]]

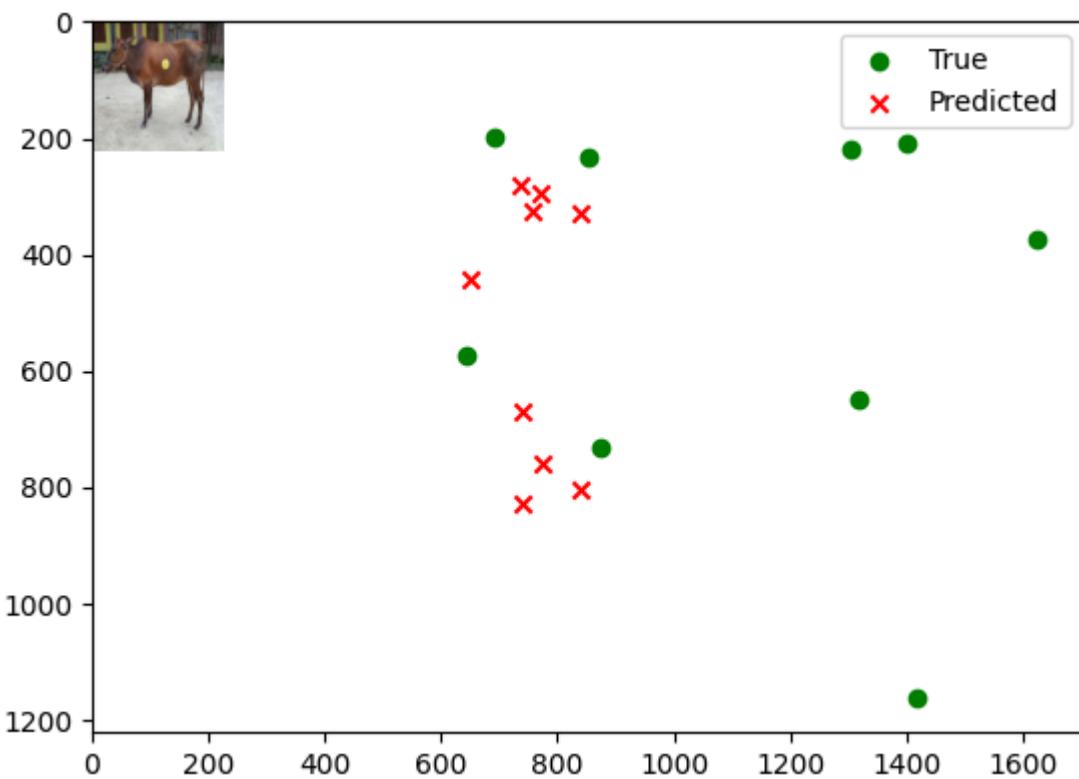


Image number: 382

True keypoints: [1214. 393. 416. 485. 1237. 657. 1062. 398. 1044. 788. 687. 353.

688. 736. 615. 349. 624. 1199.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[817.1812 356.507]

[707.58203 480.70874]

[797.9888 722.53894]

[907.6991 358.8861]

[908.84955 869.6006]

[836.94696 324.89563]

[840.37494 820.3242]

[798.0168 312.33398]

[802.51355 898.1349]]

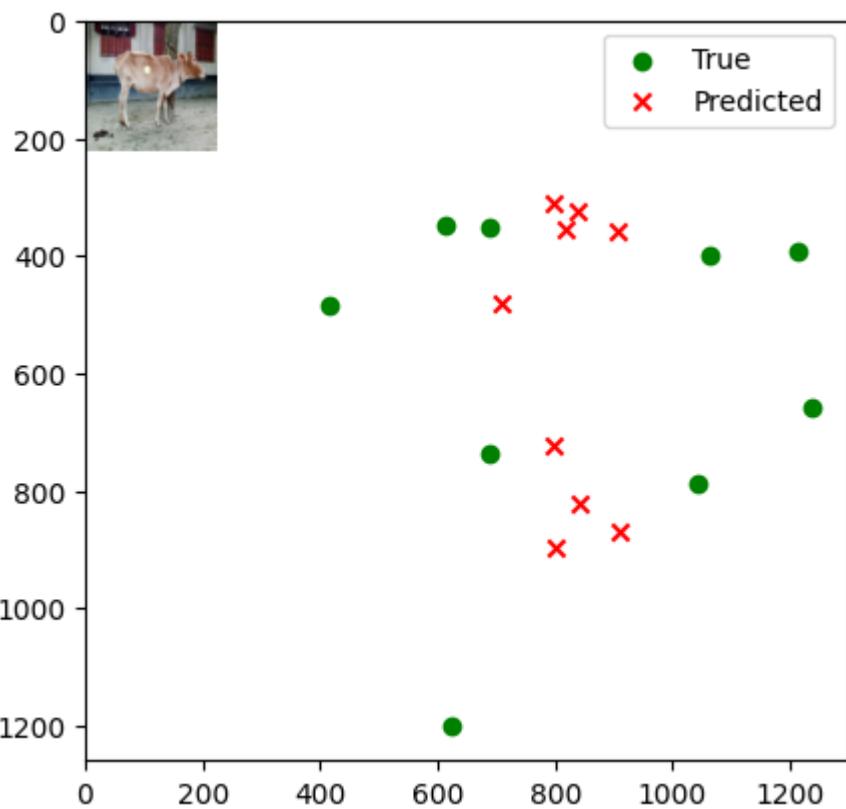


Image number: 383

True keypoints: [729. 309. 1745. 462. 664. 660. 899. 315. 922. 838. 141
1. 334.

1410. 790. 1501. 320. 1503. 1361.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[803.9818 349.51022]

[695.50415 472.34314]

[785.20374 710.6658]

[892.3685 351.95496]

[893.45325 855.11365]

[822.621 317.93735]

[825.9705 806.6788]

[784.249 305.39658]

[788.81903 882.95044]]

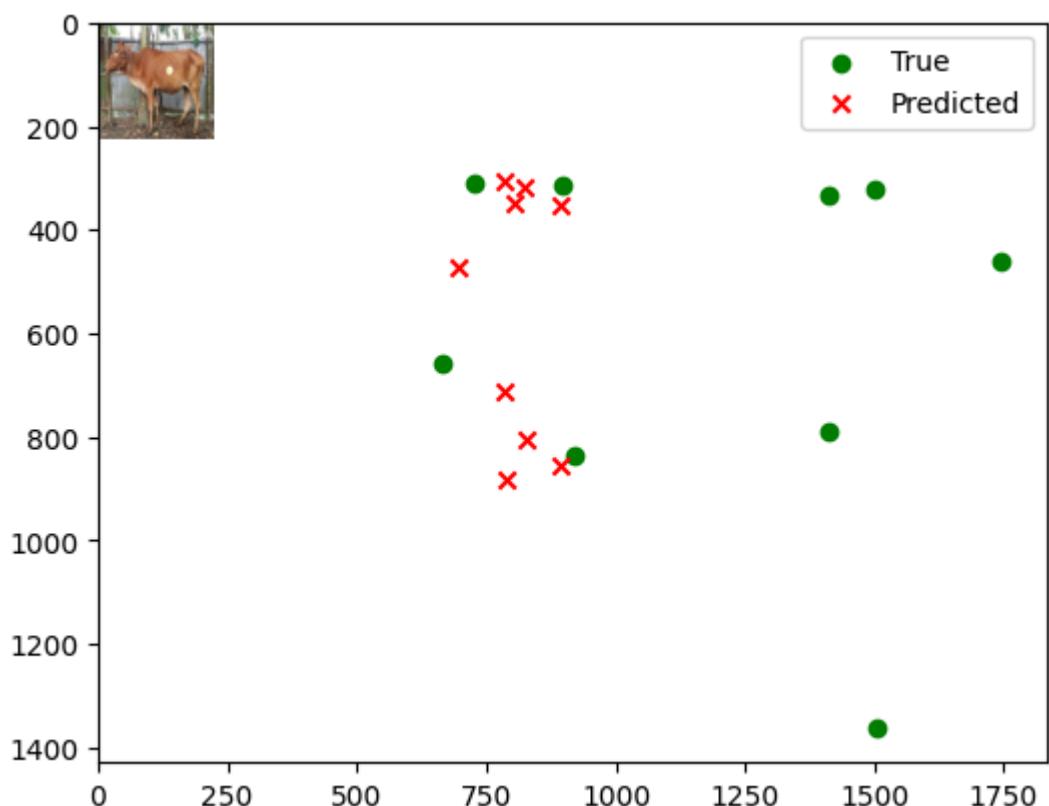


Image number: 384

True keypoints: [1220. 209. 97. 255. 1222. 533. 980. 184. 989. 712. 495. 105.]

515. 666. 366. 82. 410. 1209.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[684.9425 293.58157]]

[581.2346 400.66995]

[670.18933 606.40015]

[754.37885 294.94104]

[755.4159 725.02985]

[691.99365 261.94955]

[695, 04846 685, 38043]

[693.04840 683.38043]
[657.7555 250.06485]

[662.2213 746.23145]

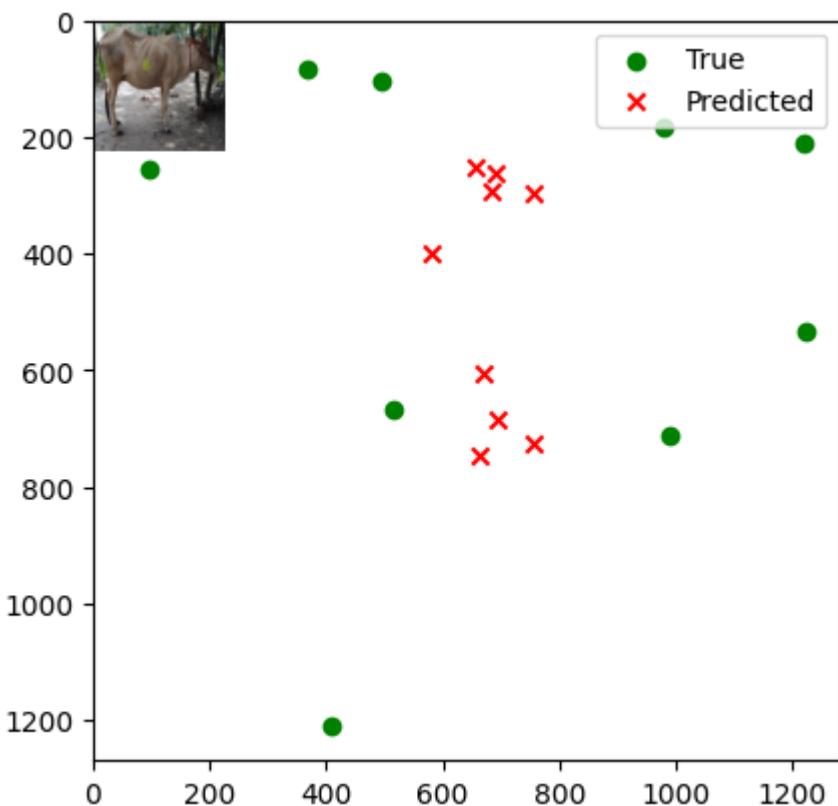


Image number: 385

True keypoints: [691. 298. 1607. 484. 633. 635. 847. 311. 859. 778. 131
9. 315.

1322. 732. 1409. 304. 1427. 1222.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[812.917 353.83102]

[703.56946 477.8167]

[793.88586 718.6316]

[902.5714 356.27264]

[903.6589 864.7952]

[832.11414 322.07822]

[835.4922 815.8016]

[793.32605 309.4774]

[797.91876 893.0477]]

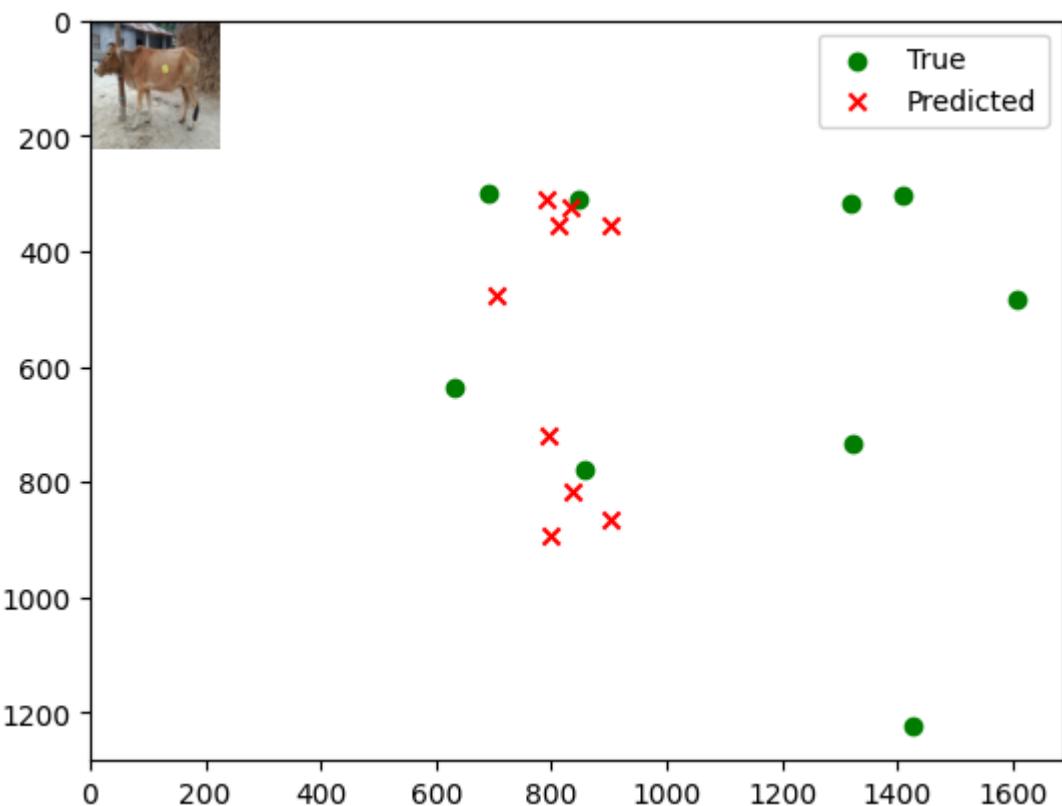


Image number: 386

True keypoints: [712. 348. 1680. 477. 728. 697. 934. 362. 959. 832. 133
9. 319.

1353. 805. 1443. 319. 1465. 1269.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[837.1782 365.93665]

[725.94653 492.78183]

[817.4084 740.2325]

[930.564 368.4066]

[931.69635 891.24786]

[858.30054 334.04843]

[861.81433 840.6781]

[818.5662 321.34186]

[823.1186 920.73914]]

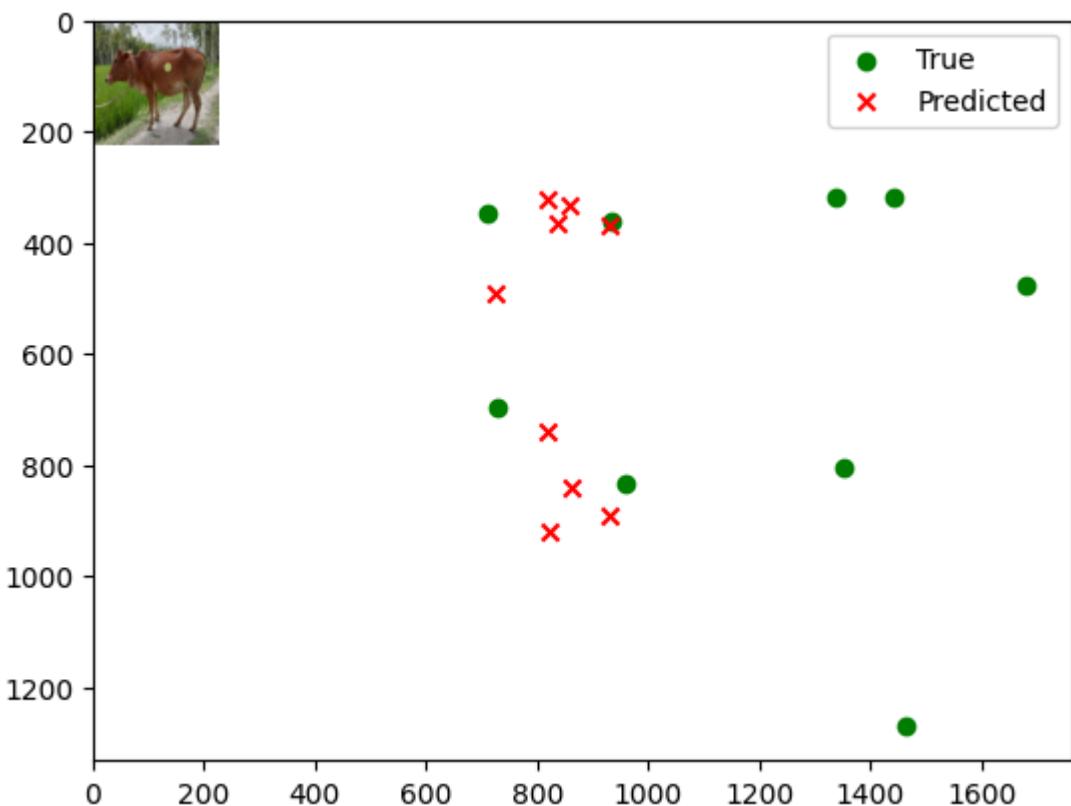


Image number: 387

True keypoints: [659. 357. 1638. 437. 677. 672. 890. 352. 905. 827. 132
3. 324.

1330. 742. 1408. 311. 1437. 1281.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[828.52527 361.9786]

[718.1932 487.61484]

[808.99304 732.5891]

[920.7956 364.4139]

[921.9322 881.96063]

[849.2235 330.31418]

[852.712 831.90356]

[809.8765 317.68332]

[814.38275 911.0803]]

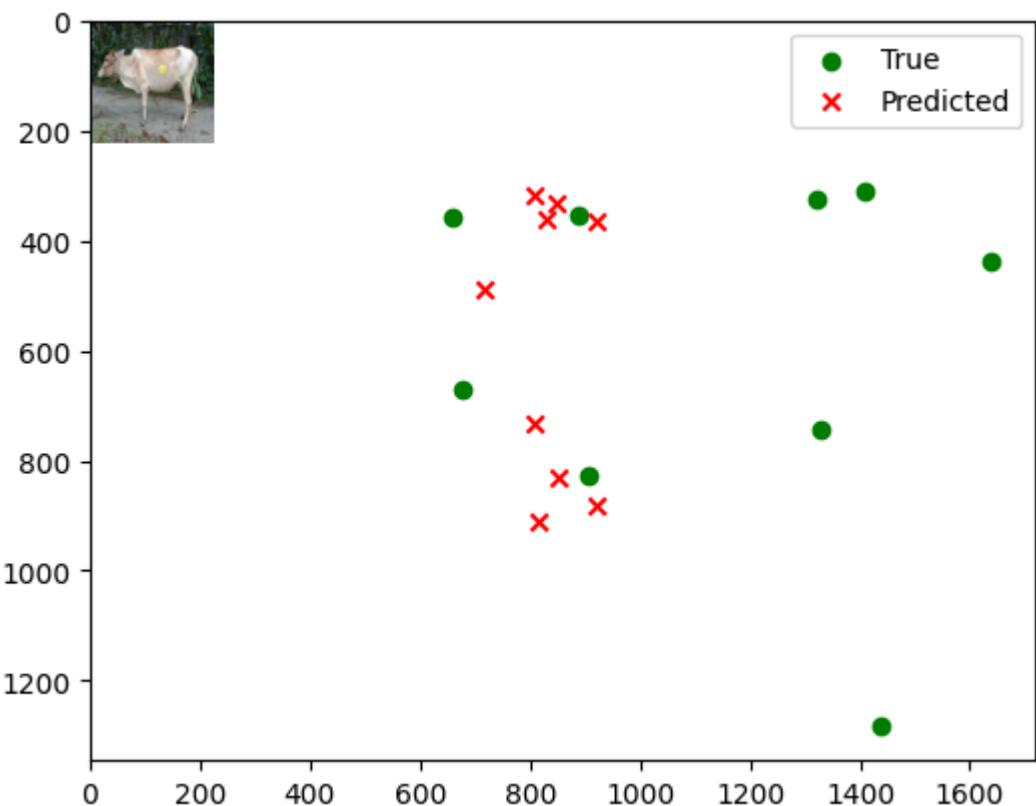


Image number: 388

True keypoints: [1165. 269. 170. 387. 1183. 630. 966. 280. 971. 748. 51
1. 258.

532. 708. 424. 237. 492. 1217.]

Length of true keypoints: 9

Length of predicted keypoints: 9

Predicted keypoints: [[731.7452 314.33377]

[627.9478 428.17856]

[715.25275 646.73004]

[808.9183 316.4956]

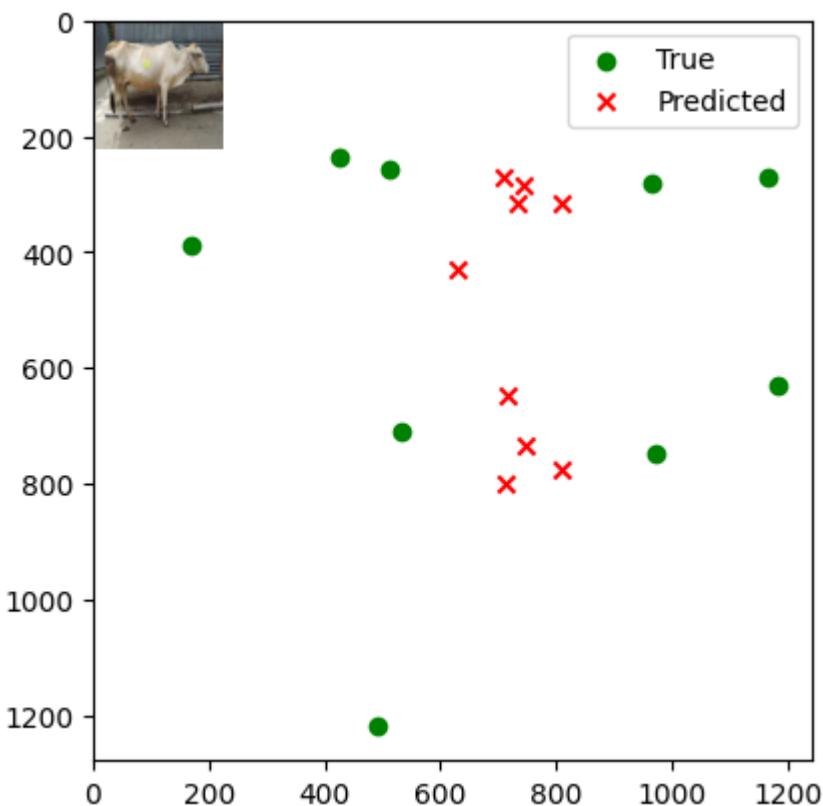
[809.9262 776.335]

[744.2301 283.0785]

[747.2517 732.8139]

[708.6188 270.90952]

[713.24506 800.39233]]



Validation Loss (Side): 234.6337
 Mean Absolute Error (Side): 235.1326
 R^2 Score (Side): -2.3801

```
In [32]: import numpy as np
import matplotlib.pyplot as plt
from tqdm.notebook import tqdm
from sklearn.metrics import mean_absolute_error, r2_score
import torch

def evaluate_model(model, dataloader, criterion, visualize=False, image_index_to_
    model.eval() # Set model to evaluation mode
    running_loss = 0.0
    all_predictions = []
    all_keypoints = []

    # For visualization
    sample_image = None
    sample_true_keypoints = None

    with torch.no_grad():
        for batch_index, (images, keypoints) in enumerate(tqdm(dataloader, desc=_
            outputs = model(images)
            loss = criterion(outputs, keypoints)
            running_loss += loss.item() * images.size(0)

            all_predictions.extend(outputs.cpu().numpy())
            all_keypoints.extend(keypoints.cpu().numpy())

        # Capture the specific image and its keypoints for visualization
        if visualize and sample_image is None and batch_index == image_index
            sample_image = images[0].cpu().numpy()
            sample_true_keypoints = keypoints[0].cpu().numpy()

    average_loss = running_loss / len(dataloader.dataset)
```

```

# Calculate additional metrics
mae = mean_absolute_error(all_keypoints, all_predictions)
r2 = r2_score(all_keypoints, all_predictions)

# Visualization
if visualize and sample_image is not None and sample_true_keypoints is not None:
    plt.figure(figsize=(5, 5))
    true_keypoints = np.array(sample_true_keypoints).reshape(-1, 2)
    plt.imshow(np.transpose(sample_image, (1, 2, 0)))
    plt.scatter(true_keypoints[:, 0], true_keypoints[:, 1], color='g', marker='o')
    plt.legend()
    plt.show()

return average_loss, mae, r2

```

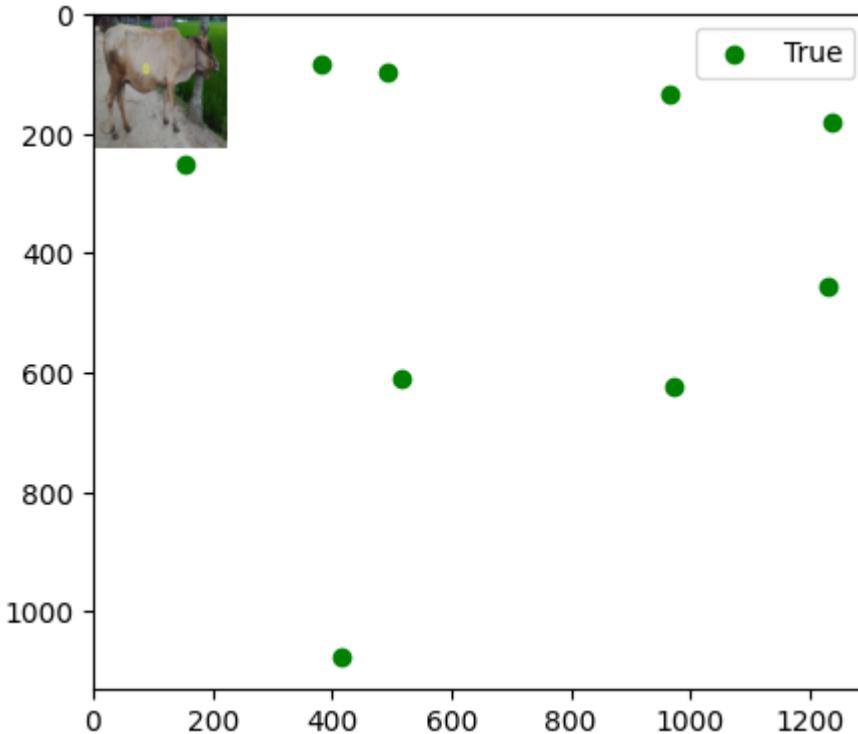
Assuming the model, dataloaders, and criterion are defined elsewhere in your code

```

# Evaluate side model
val_loss_side, mae_side, r2_side = evaluate_model(model_side, val_loader_side, criterion)
print(f"Validation Loss (Side): {val_loss_side:.4f}")
print(f"Mean Absolute Error (Side): {mae_side:.4f}")
print(f"R^2 Score (Side): {r2_side:.4f}")

```

Evaluating: 0% | 0/25 [00:00<?, ?batch/s]



Validation Loss (Side): 234.6337
Mean Absolute Error (Side): 235.1326
R^2 Score (Side): -2.3801

In [33]:

```

import numpy as np
import matplotlib.pyplot as plt
from tqdm.notebook import tqdm
from sklearn.metrics import mean_absolute_error, r2_score
import torch

def calculate_distance(p1, p2):
    return np.sqrt((p2[0] - p1[0])**2 + (p2[1] - p1[1])**2)

```

```

def evaluate_model(model, dataloader, criterion, visualize=False, image_index_to_
model.eval() # Set model to evaluation mode
running_loss = 0.0
all_predictions = []
all_keypoints = []

# For visualization
sample_image = None
sample_true_keypoints = None
sample_pred_keypoints = None

with torch.no_grad():
    for batch_index, (images, keypoints) in enumerate(tqdm(dataloader, desc=
        outputs = model(images)
        loss = criterion(outputs, keypoints)
        running_loss += loss.item() * images.size(0)

        all_predictions.extend(outputs.cpu().numpy())
        all_keypoints.extend(keypoints.cpu().numpy())

    # Capture the specific image and its keypoints for visualization
    if visualize and sample_image is None and batch_index == image_index:
        sample_image = images[0].cpu().numpy()
        sample_true_keypoints = keypoints[0].cpu().numpy()
        sample_pred_keypoints = outputs[0].cpu().numpy()

average_loss = running_loss / len(dataloader.dataset)

# Calculate additional metrics
mae = mean_absolute_error(all_keypoints, all_predictions)
r2 = r2_score(all_keypoints, all_predictions)

# Visualization and measurement
if visualize and sample_image is not None and sample_true_keypoints is not N
    plt.figure(figsize=(10, 10))

    true_keypoints = np.array(sample_true_keypoints).reshape(-1, 2)
    pred_keypoints = np.array(sample_pred_keypoints).reshape(-1, 2)

    plt.imshow(np.transpose(sample_image, (1, 2, 0)))
    plt.scatter(true_keypoints[:, 0], true_keypoints[:, 1], color='g', marker='x')
    plt.scatter(pred_keypoints[:, 0], pred_keypoints[:, 1], color='r', marker='x')

    # Assuming specific indices for girth and height based on your model's k
    girth_start_idx = 2
    girth_end_idx = 5
    height_start_idx = 8
    height_end_idx = 3

    # Calculate height using true keypoints
    height = calculate_distance(true_keypoints[height_start_idx], true_keypo

    # Calculate girth using true keypoints
    girth = calculate_distance(true_keypoints[girth_start_idx], true_keypoi

    # Plot the height line
    plt.plot([true_keypoints[height_start_idx][0], true_keypoints[height_end_
        [true_keypoints[height_start_idx][1], true_keypoints[height_end_idx][1]]])

```

```

# Plot the girth line
plt.plot([true_keypoints[girth_start_idx][0], true_keypoints[girth_end_idx][0],
          true_keypoints[girth_start_idx][1], true_keypoints[girth_end_idx][1]])
plt.legend()
plt.show()

print(f"Height (True): {height}")
print(f"Girth (True): {girth}")

return average_loss, mae, r2

```

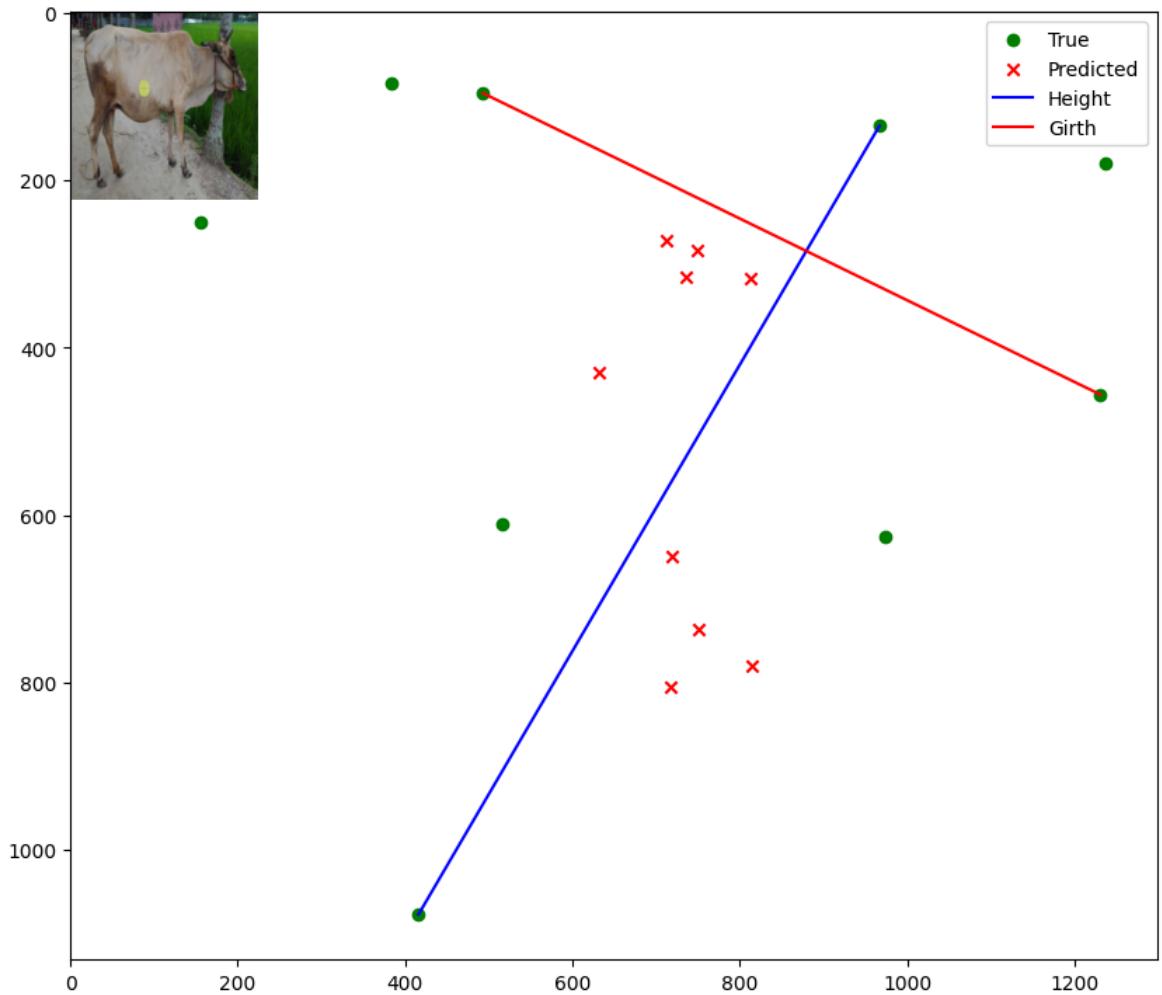
Assuming the model, dataLoaders, and criterion are defined elsewhere in your code

```

# Evaluate side model
val_loss_side, mae_side, r2_side = evaluate_model(model_side, val_loader_side, criterion)
print(f"Validation Loss (Side): {val_loss_side:.4f}")
print(f"Mean Absolute Error (Side): {mae_side:.4f}")
print(f"R^2 Score (Side): {r2_side:.4f}")

```

Evaluating: 0% | 0/25 [00:00<?, ?batch/s]



```

Height (True): 1091.3134288553404
Girth (True): 821.1236204129071
Validation Loss (Side): 234.6337
Mean Absolute Error (Side): 235.1326
R^2 Score (Side): -2.3801

```

In [34]:

```

def evaluate_model(model, dataloader, criterion, visualize=False, image_index_to_evaluate=None):
    model.eval() # Set model to evaluation mode
    running_loss = 0.0

```

```

all_predictions = []
all_keypoints = []

# For visualization
sample_image = None
sample_true_keypoints = None
sample_pred_keypoints = None
girth = None # Initialize girth
length = None # Initialize length

with torch.no_grad():
    for batch_index, (images, keypoints) in enumerate(tqdm(dataloader, desc="")):
        outputs = model(images)
        loss = criterion(outputs, keypoints)
        running_loss += loss.item() * images.size(0)

        all_predictions.extend(outputs.cpu().numpy())
        all_keypoints.extend(keypoints.cpu().numpy())

    # Capture the specific image and its keypoints for visualization
    if visualize and sample_image is None and batch_index == image_index:
        sample_image = images[0].cpu().numpy()
        sample_true_keypoints = keypoints[0].cpu().numpy()
        sample_pred_keypoints = outputs[0].cpu().numpy()

        true_keypoints = np.array(sample_true_keypoints).reshape(-1, 2)

    # Assuming specific indices for girth and length based on your model
    girth_start_idx = 1 # Index for shoulder
    girth_end_idx = 2 # Index for end of belly
    length_start_idx = 3 # Index for right below neck
    length_end_idx = 4 # Index for hip

    # Calculate girth using true keypoints (vertical distance)
    girth = abs(true_keypoints[girth_start_idx][1] - true_keypoints[girth_end_idx][1])

    # Calculate length using true keypoints (horizontal distance)
    length = abs(true_keypoints[length_start_idx][0] - true_keypoints[length_end_idx][0])

average_loss = running_loss / len(dataloader.dataset)

# Calculate additional metrics
mae = mean_absolute_error(all_keypoints, all_predictions)
r2 = r2_score(all_keypoints, all_predictions)

# Visualization and measurement
if visualize and sample_image is not None and sample_true_keypoints is not None:
    plt.figure(figsize=(10, 10))
    pred_keypoints = np.array(sample_pred_keypoints).reshape(-1, 2)

    plt.imshow(np.transpose(sample_image, (1, 2, 0)))
    plt.scatter(true_keypoints[:, 0], true_keypoints[:, 1], color='g', marker='x')
    plt.scatter(pred_keypoints[:, 0], pred_keypoints[:, 1], color='r', marker='x')

    # Plot the length line
    plt.plot([true_keypoints[length_start_idx][0], true_keypoints[length_end_idx][0],
              [true_keypoints[length_start_idx][1], true_keypoints[length_end_idx][1]])

    # Plot the girth line
    plt.plot([true_keypoints[girth_start_idx][0], true_keypoints[girth_end_idx][0],
              [true_keypoints[girth_start_idx][1], true_keypoints[girth_end_idx][1]])

```

```

        [true_keypoints[girth_start_idx][1], true_keypoints[girth_end_i

    plt.legend()
    plt.show()

    print(f"Girth (True): {girth}")
    print(f"Length (True): {length}")

    return average_loss, mae, r2, girth, length

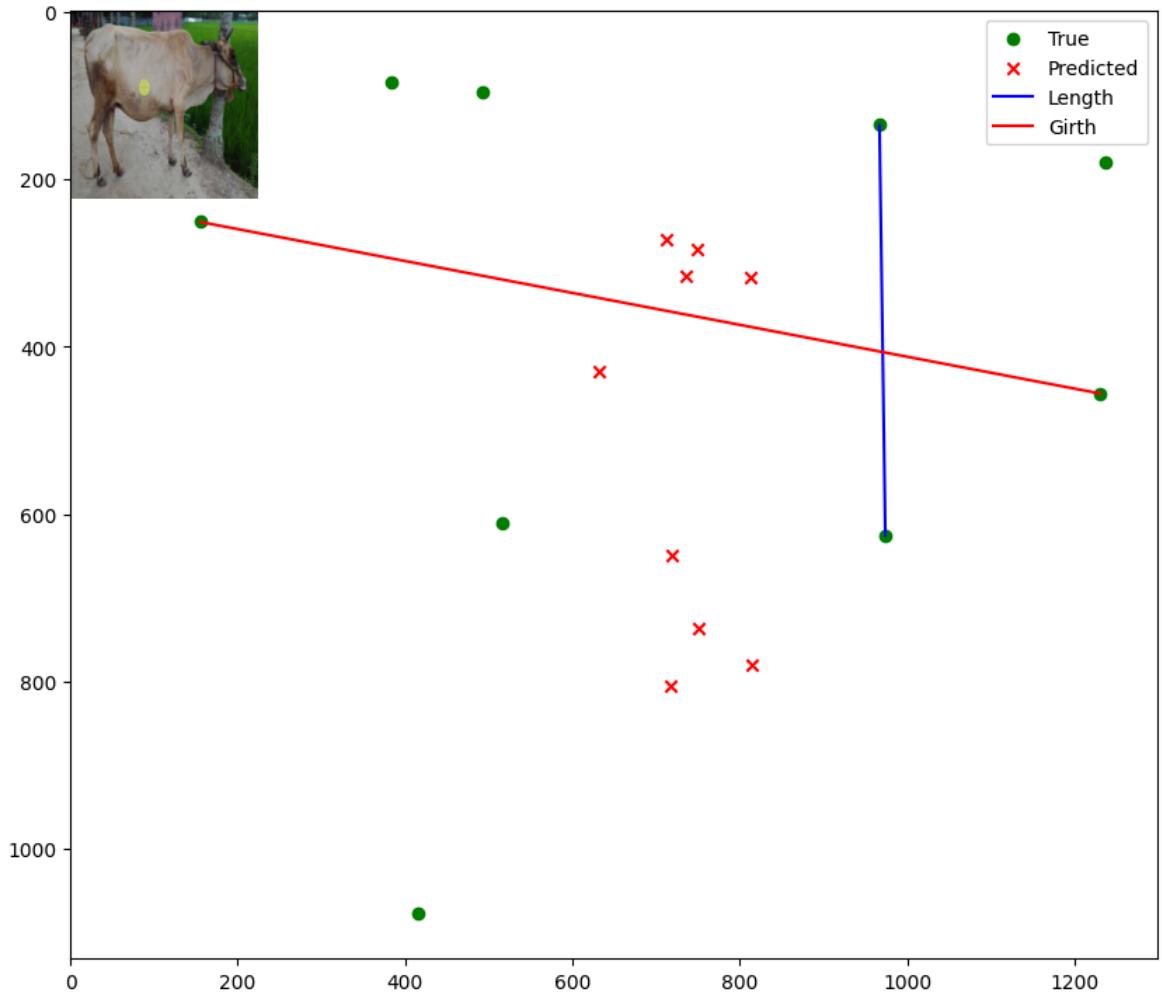
# Assuming the model, dataLoaders, and criterion are defined elsewhere in your c

# Evaluate side model
val_loss_side, mae_side, r2_side, girth, length = evaluate_model(model_side, val
print(f"Validation Loss (Side): {val_loss_side:.4f}")
print(f"Mean Absolute Error (Side): {mae_side:.4f}")
print(f"R^2 Score (Side): {r2_side:.4f}")

# Check if girth and length are valid before calculating weight
if girth is not None and length is not None:
    weight = (girth * girth * length) / 300
    print(f"Estimated Weight: {weight:.2f}")
else:
    print("Girth or length is not defined. Cannot calculate weight.")

```

Evaluating: 0% | 0/25 [00:00<?, ?batch/s]



```
Girth (True): 205.0
Length (True): 7.0
Validation Loss (Side): 234.6337
Mean Absolute Error (Side): 235.1326
R^2 Score (Side): -2.3801
Estimated Weight: 980.58
```

```
In [ ]:
```