Create a Handwritten Digit Recognition System using an ML algorithm that can recognize handwritten digits. You may use any database of handwritten digits which is available online using python

Sure, I can provide you with a basic implementation of a Handwritten Digit Recognition System using an ML algorithm in Python. We will be using the MNIST dataset for this project, which is a popular dataset of handwritten digits.

Here are the steps we will follow:

- Import the necessary libraries
- Load the MNIST dataset
- Prepare the data for training and testing
- Train the ML model using the training data
- Evaluate the model using the testing data
- Use the model to predict handwritten digits

Let's get started!

Step 1: Import the necessary libraries

```
import tensorflow as tf
from tensorflow import keras
import numpy as np
import matplotlib.pyplot as plt
```

Step 2: Load the MNIST dataset

```
mnist = keras.datasets.mnist
(train_images, train_labels), (test_images, test_labels) = mnist.load_data()
```

Step 3: Prepare the data for training and testing

```
train_images = train_images / 255.0
test_images = test_images / 255.0

train_images = train_images.reshape(train_images.shape[0], 28, 28, 1)
test_images = test_images.reshape(test_images.shape[0], 28, 28, 1)

train_labels = keras.utils.to_categorical(train_labels, 10)
test_labels = keras.utils.to_categorical(test_labels, 10)
```

Step 4: Train the ML model using the training data

```
model = keras.Sequential([
   keras.layers.Conv2D(32, (3,3), activation='relu', input_shape=(28,28,1)),
   keras.layers.MaxPooling2D((2,2)),
   keras.layers.Flatten(),
   keras.layers.Dense(128, activation='relu'),
   keras.layers.Dense(10, activation='softmax')
])

model.compile(optimizer='adam',
            loss='categorical_crossentropy',
            metrics=['accuracy'])

model.fit(train_images, train_labels, epochs=5)
```

Step 5: Evaluate the model using the testing data

```
test_loss, test_acc = model.evaluate(test_images, test_labels)
print('Test accuracy:', test_acc)
```

Step 6: Use the model to predict handwritten digits

```
predictions = model.predict(test_images)
np.argmax(predictions[0])
```

This will output the predicted digit for the first image in the testing data.

I hope this helps you get started with building a Handwritten Digit Recognition System using an ML algorithm in Python!