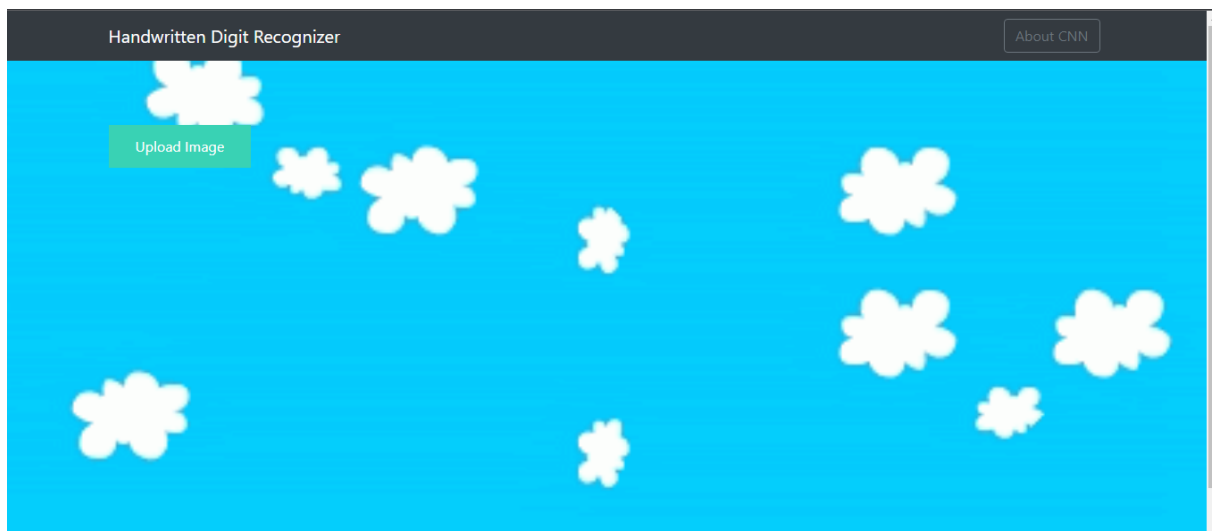


Project Development Phase Delivery of Sprint-3

Date	12.11.2022
Team ID	PNT2022TMID53601
Project Name	Project - A Novel Method for Handwritten Digit Recognition System

Creating HTML File

1. Create a new HTML File with a neat UI and reference material for Convolutional Neural Networks



Published in Towards Data Science

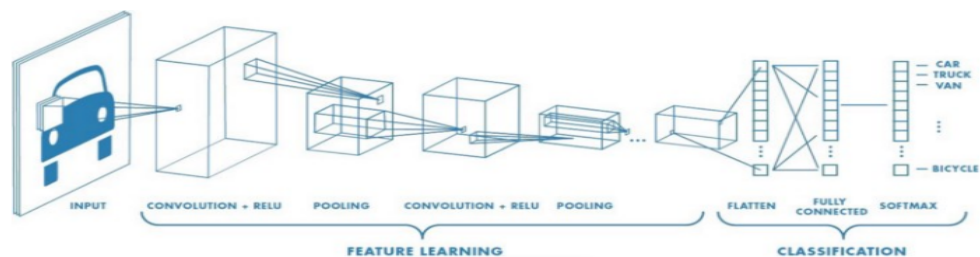


Sumit Saha

Dec 15, 2018 · 7 min read · Listen



A Comprehensive Guide to Convolutional Neural Networks — the ELI5 way



13.4K



64

Artificial Intelligence has been witnessing monumental growth in bridging

Build the Python code

2. Build the python code inside the app.py file

```
# Model saved with Keras model.save()
MODEL_PATH = 'bestmodel.h5'

# Load your trained model
model = load_model(MODEL_PATH)
model.make_predict_function()          # Necessary

# print('Model loaded. Start serving...')

print('Model loaded. Check http://127.0.0.1:5000/')

Kishore Muthuselvan
def model_predict(img_path, model):
    model = keras.models.load_model('bestmodel.h5')

    img = cv2.imread(img_path)[: , : , 0]
    img = cv2.resize(img, (28, 28))
    # cv2.imshow('image',img)
    img = np.invert(np.array([img]))
    prediction = model.predict(img)
    return str(np.argmax(prediction))
```

```

Kishore Muthuselvam
@app.route('/', methods=['GET'])
def index():
    # Main page
    return render_template('index.html')

Kishore Muthuselvam
@app.route('/predict', methods=['GET', 'POST'])
def upload():
    if request.method == 'POST':
        # Get the file from post request
        f = request.files['file']

        # Save the file to ./uploads
        basepath = os.path.dirname(__file__)
        file_path = os.path.join(
            basepath, 'uploads', secure_filename(f.filename))
        f.save(file_path)

        # Make prediction
        preds = model_predict(file_path, model)
        return preds
    return None

```

```

if __name__ == '__main__':
    app.run(debug=True)

```

Run the application

3. Run the application and see the output in localhost

i Python ve
Your source
Would you
inspection'