

Mathan Prasanna Kumar

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Education

Government College of Engineering, Salem, Tamil Nadu.

Graduation : 2022

Bachelor of Engineering in Civil Engineering

CGPA : 8.40/10

Skills

Languages: C++, Python, JavaScript, HTML, CSS

Technologies: Node.js, Tensorflow, Keras, Opencv, Express.js, flask, Git, PostgreSQL

Projects

Face Recognition System

(github.com/facewebapp)

- Similar to attendance recognition system, users can punch in and out their attendance through webcam in a website.
- User data is not stored inside the database ,only the embedding of the user image is stored which is more secure and the user data can never be mishandled.
- Using FaceNet embedding of the image to be recognized is created and verified against the reference image
- Similarity of both input and reference image is measure using cosine similarity distance

Face Detection

(github.com/facedetection)

- LFW dataset is used and data annotation is done for training ,testing and validation images .Applied preprocessing to the images before training.
- VGG16 Network is used with the combination of custom layers and training and evaluation is implemented by subclassing keras model class.
- Model will return a array containing classification prediction and bounding box coordinates and loss is for localization of bounding boxes is calculated by determining the delta between the truth and the predicted values.

MNIST Handwritten Recognition

(github.com/mnist)

- Implemented a CNN model which will recognize the handwritten digits with an accuracy of 99.67%
- Sequential model structure is followed for the layers architecture and Batch normalization is applied after each layer.
- For Evaluation K fold cross validation used and followed by the Categorical cross entropy loss.

Activities

- Solved 500+ problems in Geeks For Geeks (gfg/mathan)
- Built a Portfolio Website using HTML and CSS.
- Built a top 50 IMDB movies scraper using python.

Experience

SSV Constructions

Dec-2022

- Worked on the execution of Post tensioned cables and supervised labours to implement the laying ,stressing and grouting. Successfully executed laying and tensioning of the cables without bursting.
- Planning of labour and materials is handled without imposing any delay to the project.

Maruthi Builders (intern)

Jan-2022

- Field assessment and Quality checking was done material, execution of work and implemented good practices as per the plan and design.
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