# Mathan Prasanna Kumar

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# Education

Government College of Engineering, Salem, Tamil Nadu.

**Bachelor of Engineering in Civil Engineering** 

CGPA:8.40/10

Graduation: 2022

#### **Skills**

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

Technologies: Node.js, Tensorflow, Keras, Opency, 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.