

## **R. SATHISHKUMAR** MTECH -IT

Phone : +91 8760430744

Address : 3/124A, P.T.Kannan Nagar, Vandimedu, Villupuram-605602

Email : [sathishkumar.ravi2015@gmail.com](mailto:sathishkumar.ravi2015@gmail.com)



### **SUMMARY**

Strong in design and integration with intuitive, proficient in **JAVA, C, PYTHON, JAVASCRIPT, C++, MACHINE LEARNING, DATA SCIENCE** and **SQL**. Passionate about implementing and launching new projects. Ability to translate business requirements into technical solutions.

### **PROJECTS**

#### **❖ Application of U-net (Benign or Malignant tumor)**

The images are initially segmented using U-net architecture to identify the cancer affected region. The lung nodules are further examined using Convolutional Neural Network (CNN) to detect whether it is Benign or Malignant tumor

MATLAB tools been used for project execution and U-Net is Machine learning algorithms is been used for image feature extraction and image net is used for training dataset. Implement with Python Language.

#### **❖ Face Identification and Age, Gender Classification using Deep Convolutional Neural Networks**

Face detection is used to predict whether a person is male or female standing in a queue. With help of current technology, it is able to find the person's gender and age while standing in queue.

YOLO is used to object detection and MNMC algorithms is used to detects faces in group of people and then with helps of transfer learning and DCNN is used to predicted weather male and female and age predicted. Then store image in database, compare image with previse image in it.

Python, Tenser flow, NumPy, keras Model, Matplotlib is used for implementation for project.

## ❖ **Hand Gesture Using DCNN**

The main issue in improving performance of hand gesture recognition is hand shape. Recognition process combines both the segmented images and RGB input image in fully connected layer before classification.

Python, Tensor flow, NumPy, keras Model, Matplotlib is used for implementation for project.

## **PAPER PUBLISHED**

Paper on International Journal of Research in Engineering and Science and Management:

### **Application of U-net**

This paper highlights problems to identify whether it is Benign or Malignant tumor. <https://www.journals.resaim.com/ijresm/article/view/107>

## **EXPERIENCE**

- ❖ Programming languages: **Python, NLP, Java, JavaScript, C, C++, Machine Learning, Deep Learning, Data Science, SQL, Html, CSS**
- ❖ Experience in Machine learning and data science with Python.
- ❖ Data scientist of experience in **Machine Learning and Data science** with Python. Good experience in statistical analysis, structuring and optimization of machine learning models.
- ❖ List of Machine Learning and Deep Learning algorithms are used to **Prediction Models, Convolutional Neural Network, Random Forest Classifier, Logistic Regression, Support vector Machine, Deep Neural Network, U-Net, K-Means Clustering, Decision Tree, K-Nearest Neighbors.**
- ❖ Experience in Python libraries such as **NumPy, TensorFlow, Keras Model, Pandas, Matplotlib, PyTorch, SciPy, Scikit-learn, OpenCV**
- ❖ Experience in **Anaconda Navigator** such as **JupyterLab, Spyder, RStudio, Visual studio code**
- ❖ Experience in various of tools such as **Matlab, Tableau, Android Studio,**
- ❖ **Oracle VM Virtual Box, NLTK**
- ❖ Experience in **Tableau** and **PowerBI** is used for **Data Visualization**
- ❖ Experience in Object detection using **YOLO**
- ❖ Experience in front End development for website using **HTML, CSS** and **JAVASCRIPT**

## **MINI PROJECT**

- ❖ Detection of Plant **Disease** using Machine Learning
- ❖ CAR and BIKE Detection using **YOLO**

## TECHINICAL KNOWLEDGE

- ❖ **OS Platform** : Windows ,Linux
- ❖ **Networking skills** : OS installation and troubleshooting, Hardware and Software Installation.

## EDUCATION

- ❖ **SSLC** in E.S. Mat. Hr. Sec. School., Villupuram with **80.01%** in 2011.
- ❖ **HSC** in E.S. Mat. Hr. Sec. School., Villupuram with **74.75%** in 2013.
- ❖ **B. TECH- INFORMATION TECHNOLOGY** in Jerusalem College of Engineering, Velachery with **67.6%** in 2017.
- ❖ **M.TECH-INFORMATION TECHNOLOGY** in College of Engineering, Guindy Campus with **70.1%** in 2020.

## KEY SKILLS

Python	●	●	●	●	○	HTML	●	●	●	●	○
Java	●	●	●	●	○	CSS	●	●	●	○	○
C	●	●	●	●	○	JAVASCRIPT	●	●	●	○	○
MySQL	●	●	●	○	○	AI, ML, DL	●	●	●	●	○

## PERSONAL DETAILS

- ❖ **Father Name** : M.Ravichandran
- ❖ **Mother Name** : R.Santhi
- ❖ **D.O.B** : 18<sup>th</sup> April 1995
- ❖ **Gender** : Male
- ❖ **Marital Status** : Single
- ❖ **Nationality** : Indian
- ❖ **Languages** : Tamil, English
- ❖ **Home town** : Vilupuram
- ❖ **State** : **TamilNadu**

**Date:**

**[Signature]**