A V BALAJEE

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EDUCATION

KLN College of Engineering	B.E in Electronics and Communication Engineering	2019-2023	8.77 CGPA
Velammal Vidyalaya CBSE	Class 12th (C.B.S.E.)	2019	71.4%
Velammal Vidyalaya CBSE	Class 10th (C.B.S.E.)	2017	9 CGPA

SKILLS

Programming Languages : C, C++, Python , HTML/CSS, Javascript, SQL

Hardware Programming : Embedded C, Verilog

Frameworks : React JS

Cloud Computing: Google Cloud Platform, Big Data

Machine Learning Libraries : Tensorflow, Scikit-Learn, Keras

Non Technical: Collaboration, Mentorship, Teamwork, Business Analytics and Strategy

MINI PROJECTS

WEB PHISHING DETECTION – Python, Machine Learning, Flask, Network Security Nov 2022

- IBM & Nalaiya Thiran initiated the Web Phishing Detection project to address the increasing threat of phishing attacks.
- The project aims to develop a machine learning-based solution that can accurately detect phishing websites and protect users from potential harm.
- The machine learning model was trained and tested on the dataset, achieving high accuracy in detecting phishing websites and outperforming traditional rule-based methods like Gradient Boosting.
- Using the predicted model, hosted the Phishing Website through Python and Flask which gets the input link from the users and predicts the link Legitimate or not. Therefore this project demonstrates the effectiveness of machine learning in detecting and preventing phishing attacks, highlighting the importance of using advanced technologies to enhance cybersecurity.

MULTI LEVEL BIOMETRIC ATM – Python, Machine Learning, Embedded C, SQL Jun 2022

- The Multi Authentication ATM Machine project involves the development of an ATM machine that can verify the identity of the user using multiple authentication methods.
- The task is to integrate machine learning algorithms and embedded system technologies to develop an ATM machine that can authenticate users using multiple biometric factors such as fingerprint, face recognition, and iris recognition.
- The action involves the design and development of a hardware system that can capture biometric data and process it using machine learning algorithms to authenticate the user, integrating the hardware with the software system of the ATM, and testing the system to ensure its accuracy and reliability.
- The result is an ATM machine that can authenticate users using multiple biometric factors, enhancing the security of financial transactions, and reducing the likelihood of fraudulent activities.

TRAFFIC SIGN CLASSIFICATION – Python Tkinter, Machine Learning Jun 2021

- The Traffic Sign Classification project involves the development of a machine learning model to classify traffic signs from images.
- The task is to train a machine learning algorithm to accurately identify different types of traffic signs such as speed limit signs, stop signs, yield signs, and more.
- The action involves the collection of a large dataset of traffic sign images, preprocessing the images to enhance features and reduce noise, training a machine learning model such as a convolutional neural network (CNN) on the dataset, and fine-tuning the model to improve its accuracy.
- The result is a trained machine learning model that can classify traffic signs with a high degree of accuracy, which can be used to assist autonomous driving systems, enhance traffic safety, and reduce the likelihood of accidents caused by human error.