# DINESH VENKATA KUMAR SIVALANKA

Yendagandi | sivalankadinesh2005@gmail.com | 9542643859

linkedin.com/in/Dinesh-Venkata-Kumar-Sivalanka

## Education

**SRKR Engineering College**, Bhimavaram,India Jul 2024 –Present

- B.Tech CSE|CGPA:9.10

**Smt.B.Seetha Polytechnic**, Bhimavaram,India Sept 2021 – April 2024

- Diploma CSE|Percentage:96.5

**Govt High School Yendagandi**, India Jun 2020 – Jun 2021

- SSC|CGPA:9.7

## Experience

**Web Developer Intern**, My Access Pvt Ltd Nov 2023-May 2024

- Participating in a 6-month internship focused on full-stack development, Python programming, and machine learning.
- Working on a Fraud Detection in Banking Data project, improving fraud detection accuracy by up to 85% using machine learning models.
- Developing and optimizing data pipelines, reducing processing time by 40% for large financial datasets.
- Utilizing Python, Flask, and SQL to build and deploy fraud detection models, increasing transaction validation efficiency by 25%
- Enhancing problem-solving skills through debugging, performance tuning, and code reviews, leading to a 15% improvement in code efficiency.

## Projects

**Fraud Detection In Banking System**

- Developed an ML-based fraud detection system, handling an 80:20 dataset imbalance with class-weight tuning and Bayesian optimization, improving accuracy by 10% and reducing errors by 12% using ensemble models (CatBoost, XGBoost, LightGBM)
- Analyzed 10M+ transactions using deep learning, improving precision and recall by 15%, reducing false positives/negatives, and optimizing system performance with a 25% faster processing time, achieving an F1-score of 0.92. .

**Fire Control Robot**

- fire-control robot capable of navigating narrow and hazardous spaces, significantly reducing human risk during high-intensity fire incidents.
- Implemented Arduino Uno R3, ESP32-CAM for 360° real-time video surveillance, and HC-05 Bluetooth transceiver for wireless communication within 10 meters, ensuring precise operation in challenging environments.

**AI-Powered Agriculture Web Application**

- Designed and developed a responsive frontend using HTML, CSS, and JavaScript. Implemented AI-based Disease Detection with PyTorch and ResNet for crop health analysis. Developed Crop Recommendation and Fertilizer Optimization models using Scikit-Learn.
- Built and integrated a Flask-based backend for API communication and data processing. Created an AI-powered Chatbot using NLP for farmer assistance and integrated real-time weather forecasting with OpenWeather API.

## Technologies

**Languages:**Python,java,C,C++,Html,css,intermediae in js,MySQL

**Tools:** Jupiter Notebook, VS Code, GitHub