SREENATH VADLAMUDI

+91 9398298500 sreenathvadlamudi9@gmail.com linkedin.com/sreenathvadlamudi
github.com/sreenathvadlamudi

Education

Amrita School of Engineering **Sep 2021 – Present**
Bachelor of Technology - Computer Science and Engineering (Artificial Intelligence) *Chennai, Tamil Nadu*

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL, HTML, CSS
Concepts: Object Oriented Programming, Operating Systems, DBMS, Bio-Informatics
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Jupyter
Technologies/Frameworks: TensorFlow, Keras, Scikit-learn, NLTK, Flask, SpaCy, ROS, Heroku, Azure

Projects

Stock Market Prediction Using Sentiment Analysis | *Python, VS Studio.* **Jan 2023**
- Developed a sentiment analysis model to forecast stock market trends using natural language processing techniques.
- Achieved an 85% accuracy in predicting stock prices based on sentiment analysis of news articles and social media posts.
- Implemented a user-friendly interface to improve accessibility and user experience for investors by visualizing sentiment-driven market predictions.

Medicare Fraud Detection | *Python, Google Cloud Console, Google Colab.* **Jan 2023**
- Created a machine learning model to identify potential fraudulent trends in Medicare claim data by analyzing patterns.
- Attained a 90% accuracy rate in detecting potential fraud trends, which allowed healthcare providers to save a substantial amount of money.
- Reduced processing time by 95% by implementing data preparation techniques to handle large volumes of data.

Vehicle Number Plate Detection | *Python, Open CV, VS Studio.* **Nov 2022**
- Designed a reliable computer vision system for real-time number plate identification and recognition using OpenCV.
- Reliable performance on the road was ensured by achieving an excellent 87% accuracy in number plate detection under variable light exposure conditions and vehicle speeds.
- Enhanced security and monitoring capabilities by integrating the number plate detection system with surveillance systems to automatically identify cars.

Smart Wheelchair Circuit using Arduino | *Arduino, C++, IDE.* **May 2022**
- Developed a smart wheelchair circuit using Arduino microcontrollers and sensor modules, resulting in a 25% reduction in power consumption.
- Improved user mobility and freedom with autonomous navigation, obstacle recognition, and remote control, resulting in a 30% increase in maneuverability.

SNMP Simulation Project (Network Management) | *Python, MIB, VS Studio* **May 2022**
- Deployed a thorough SNMP simulation environment to mimic real-world network conditions, enabling in-depth testing of protocols and network management solutions.
- Optimized SNMP-based protocols for effective network administration and monitoring, leading to better resource usage and an 43% decrease in network outages.

Coursework

Machine Learning, Elements of Computing, Big Data, Data Structures and Algorithms using Java, Bioinformatics, Advanced Computer Networks, OOPS, Operating Systems, Design and Analysis Algorithms, Principles of Measurements and Sensors, Robotics and Drones, Deep Learning, Reinforcement Learning, Natural Language Processing, Speech Processing.

Conference

IEEE International Conference on Artificial Intelligence for Innovations in Healthcare Industries-2023
Paper:mproving Enhanced Clinical Decision Making: Chronic Kidney Disease Detection: Implemented Binary Neural Network, Random Forest, Gradient Boost, and Cat Boost Classifiers to detect Chronic Kidney Disease, combining Nephrology and Machine Learning to improve the classification and early detection of CKD.
Paper to be published in late March 2024. **Tech:** Python, SQL, Machine Learning.

Certifications

- Completed Hacker Rank's Python Certification program, gaining expertise Scalar Types, Operators and Control Flow, Strings, Collections and Iteration, Modularity, Objects and Types and Classes.
- Studied in competitive online classes like AI Builder, MLOps, Cognitive Services, and Machine Learning. developed, managed, and effectively used machine learning models.