Saravana Kumar C

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EDUCATION

Vel Tech Multi Tech Dr.Rangarajan Dr.Sakuthala Engineering College Chennai,India
Bachelor of Technology-Computer science Business System CGPA-7.4(Upto 6th Semester) *Nov. 2021 – May 2025*

HSC- Government High School Nagapattinam,India
Maths-Computer Percent-76.38 *June. 2020 – April 2021*

SSLC- Vadapathimangalam Somasundaram Boys Higher Secondary School Thiruvarur,India
Percent-82.38 *June.2018 – April.2019*

INTERNSHIP

Data analyst-Intern June 2024 – July 2023
Tvs electronics *Chennai, India*

- Conducted exploratory data analysis (EDA) to identify trends and patterns in large datasets.
- Created visualizations and dashboards using Matplotlib] to communicate insights effectively.
- Cleaned and processed data, handling missing values and ensuring data integrity.
- Collaborated with cross-functional teams to align data findings with business objectives..
- Presented analytical results and recommendations to stakeholders, enhancing decision-making processes..

PROJECTS

IOT- Enabled Device for Continuous Vital Sign Monitoring

- Designed and developed an IoT-enabled device to monitor vital signs heart rate, blood pressure, temperature continuously and in real-time.
- Utilized sensors pulse oximeter, temperature sensor to collect physiological data and transmit it via communication protocol, MQTT, Wi-Fi to a cloud platform.
- Implemented a user-friendly mobile application to display real-time health data and alerts, enhancing patient monitoring capabilities.
- Developed a backend system to store and analyze collected data, enabling historical trend analysis and predictive insights.
- Ensured data security and privacy by implementing encryption protocols and user authentication measures.

Real-Time objection Detection System using YOLOv5 Model

- Developed a real-time object detection system leveraging the YOLOv5 model to accurately identify and classify multiple objects in live video feeds.
- Implemented data preprocessing techniques to enhance model performance, including data augmentation and normalization.
- Integrated the model into a user-friendly interface using OpenCV, Flask allowing for easy deployment and interaction.
- Trained the YOLOv5 model on custom datasets, achieving high accuracy and reduced inference time for real-time applications.

TECHNICAL SKILLS

Languages: Java,Python,SQL
Developer Tools: VS Code, Eclipse,PyCharm,Jupyter notebook
Libraries: pandas, NumPy, Matplotlib ,Excel