YATISH REDDY

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OBJECTIVE

Seeking a challenging position in Data Science field where I can utilize my skills and experience to contribute to the success of the company.

EDUCATION

Bachelor of ECE, VIT Vellore — Expected 2025

CGPA: 8.63

SKILLS

Technical Skills Exploratory Data Analysis, Predictive Analysis, Machine Learning Algorithms, Neural Networks NLP, MLOps, RTSP.

Soft Skills Teamwork, Problem Solving, Creativity, Leadership, Time Management.

Languages/Tools Python, Java, C++, PowerBI, Matlab, ROS, MS office, MLflow, Docker.

EXPERIENCE

KalkiNI

AI/ML developer Intern — Apr 2024 - Present

Hybrid

- Developed a real-time violence detection model leveraging **LSTM and CNN** architectures, utilizing **RTSP streams, OpenCV**, and Python.
- Led a team of three, enhancing the ML model's accuracy from 88.6% to 97%.Extracted frames
- Implemented **frame extraction** from live video streams and applied advanced preprocessing techniques, creating a comprehensive dataset for model training using TensorFlow and Python

Finlatics

Business Analyst Intern — Dec 2023 - Jan 2024

Remote

- Conducted data analysis to identify optimization opportunities and areas for improvement.
- Utilized tools such as Power BI and MS Excel to create **data visualizations** and **dashboards** for effective data communication.
- Employed the **MECE**(Mutually Exclusive, Collectively Exhaustive) framework to systematically solve complex case-based projects

Resonous Technologies Pvt. Ltd

Hardware Engineering Intern — Sept 2023 - Oct 2023

Bangalore, *IND*

- Optimized PMIO schematics and assisted in developing the schematics.
- Assisted in the development of ZCU-670 RF SoC for **5G scalability**.
- Assisted in the development of DFE for the interaction between AFE unit and base band unit.

PROJECTS

Machine learning Based web app firewall(IPS) from scratch Developed a ML model which acts as a **firewall** to block malicious **HTTP traffic**. I intercepted the HTTP traffic using **BurpSuite** and decoded the traffic from the Base64 format and using this data as my main data set, I trained ML the model to block malicious traffic.

Real life live violence detection model Engineered and deployed a **real-time machine learning** model leveraging Convolution Neural Networks (CNN) and Long Short-Term Memory (LSTM) networks for the detection of violent activities in live **RTSP streams**. Developed a robust video processing pipeline utilizing **OpenCV** for **frame extraction** and preprocessing, seamlessly integrating with existing surveillance infrastructures.

TB Detection using CDAMNet Developed and deployed a custom **Convolution Neural Network** incorporating advanced Swish activations, **Multi-Fusion Residual (MFR)** blocks, and **Channel Shuffle Dual Attention** (CSDA) modules for enhanced feature extraction and classification accuracy. Utilized **TensorFlow** and Keras frameworks for model construction and training, achieving significant performance improvements. Employed OpenCV for automated image preprocessing and implemented learning rate scheduling and checkpointing for optimization. Led a team to elevate model accuracy from 88.6% to 97%, demonstrating strong leadership and technical prowess in deep learning and image classification.

Autonomous Bot using ROS The project involves developing an autonomous bot that uses the **Robot Operating System(ROS)** for communication and control, enabling it to navigate and perform tasks in its environment without human intervention using “ROS nodes like **SLAM** and **nav2**”.

AWARDS AND HONOURS

- ”NASA Space settlement Contest (2019) Honourable mention” for our group project “ATOM” by NASA for our unique design.

CERTIFICATIONS

Google Cybersecurity professional Badge - Coursera Jan 2024
https://coursera.org/share/efbad6979da0298f64bfb136d8bd2550