Vishnuvasan Srinivasan

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EDUCATION

SRI VENKATESWARA COLLEGE OF ENGINEERING
B Tech in Artificial Intelligence and Data Science
June 2024 | 8.95 CGPA | Chennai

EBENEZER MARCUS INTERNATIONAL SCHOOL
Grade 12 - PCM with Computer Science
June 2020 | 80.4 % | Chennai

EXPERIENCE

MOBIS INDIA LTD | Machine Learning Intern
Jan 2023 | 2 weeks | Chennai

- Worked on OpenMV which is a Machine Vision platform to perform Image Processing which detects the presence of Copper Washers in real time.
- Fine-tuned the existing algorithm at 2 module lines namely Front End and Front Chassis with changes in Frame Buffer and Threshold markings.
- The resultant algorithm worked fault-proof in most of the scenarios and reduced the cycle time by 4.8 seconds in those lines.

IIT MADRAS | Full Stack (Low Code) Intern
Jun 2022 | 10 weeks | Chennai

- Developed a web portal for PALS - IIT Madras using a Low Code platform called Retool which increased the public engagements by many folds.
- Managed the database with PostgreSQL, general functionalities with JavaScript and overall setup with the predefined components.
- Adopted Agile development methodology with which the project was completed within a span of 10 weeks and reduced the manual work by 33 %.

PROJECTS

ACCICARE | Machine Learning, Computer Vision, NLP, IOT

- Developed an accident mitigation system which detects whether or not an accident has happened.
- Contributed by building a NLP module for ease of user-to-system interaction which leveraged the use-cases of the product.

COPD SEVERITY ASSESSMENT | Machine Learning, Audio Processing, Neural Networks

- Developed a multi-class classification system for COPD progression at different scales incorporating 12 different features as raw audio signals from different parts of lungs.
- Spectrograms, Mel-spectrograms and Chromograms were the 3 extracted features from input audio and fed into RESNET-50 model.

AVALANCE VICTIM LOCALIZER | Machine Learning, Computer Vision, Multisensory

- Developed a system to identify victims buried under Avalanches using the 3 multisensory - Thermal Camera, Beacon Transceiver and Met Detectors.
- YOLO v 8 was trained against the custom dataset of thermal sensitive image and was made to localize humans from a set of other debris on the snow floor since the occurrence of Avalanche.

SKILLS

TECHNICAL
Programming:
C++ • Python • Java • SQL • Matlab
Domains:
Machine Learning • Deep Learning
Computer Vision • Web Development
Data Analysis • Quantum Computing
Frameworks:
Tensorflow • Pytorch • Qiskit

OTHERS
Music Programming • Drone Pilot

ACHIEVEMENTS

2022 Best Sustainable Hack Award at Version Beta Hackathon by NIT, Bhopal
2022 1st Runner Up at HackFest Hackathon by PSG iTECH, Coimbatore
2022 2nd Runner Up at Hackerzz Debugging event at CIT, Chennai
2022 National Finalist of Smart India Hackathon 2022
2021 Budding Bright Engineer Award by SVCE, Chennai

CERTIFICATIONS

Machine Learning with Python
Neural Networks & Deep Learning
Data Analysis with Python
Cloud Computing
Quantum Computing

COURSEWORK

Data Structures and Algorithms
Intelligent Database Management System
Principles of Artificial Intelligence
Applied Machine Learning
Object Oriented Software Engineering
Deep Learning Algorithms and Architectures
Datamining and Data warehousing
Internet of Things towards Data Science
Big Data Analytics and Visualization
Natural Language Processing
Computer Vision and Applications
Cyber Security and Ethical Hacking

ACTIVITIES

ACM Student Chapter
Youth Red Cross
Internal Quality Assurance Cell
SVCE Science Club
PALS - IIT Madras