Jampana Jagadeesh

📞 9182220171   ✉ jagadeeshjampana5@gmail.com

EDUCATION

Vignan's Foundation for Science, Technology and Research, Guntur	**Jun 2019 - May 2023**
Bachelor of Technology -Electrical & Electronics Engineering CGPA: 9.17/10.0	*Vadlamudi, Guntur, A.P, India*
Sri Chaitanya Junior College, Vijayawada	**Jun 2017 - Apr 2019**
*Board of Intermediate CGPA:*8.5	*Vijayawada, Andhra Pradesh, India*
Sri Chaitanya School, Challapalli	**Jun 2016 - Apr 2017**
*SSC CGPA:*8.2	Challapalli*, Andhra Pradesh, India*

SKILLS

- **Languages**: Python Programming, C Programming, SQL, Basics of HTML&CSS
- **Technical Skills**: Machine Learning, Data Structure and Algorithm, Microsoft Excel, Data Science
- **Soft Skills**: Time Management, Strong Work Ethic, Problem Solving, Interpersonal Skill, Critical Thinking

RELEVANT COURSES

- Machine Leaning.
- Crash Course on Python.
- Python with Data Structures and Algorithm.
- Programming for Everybody (Getting start with Python)

PROJECTS

Face mask detection using Machine Learning: **Aug2022-Dec2022**

Developed a real time face mask detection system using MACHINE LEARNING to detect whether a person is wearing a mask or not, and based on signal to a Raspberry Pi to decide whether to open the door or not based on the detection result.

- Tools & technologies used: Python (OpenCV, Scikit-learn), Raspberry pi, Proteus Software, Webcam/Camera Module, Servo Motor
- Developed a real time face mask detection using Support Vector Machine (SVM) algorithm for Classification.
- Used Python OpenCV and Scikit-learn libraries for SVM Implementation.
- Integrated Raspberry Pi to enable practical deployment and door access control based on SVM detection results.
- Successfully achieved high accuracy of 90%, in face mask detection allowing seamless decision-making for door access control.

Modelling & Control of Magnetic Levitation Train by Using FOPID Controller: **Jan2023-Apr-2023**

The Magnetic Levitation (Maglev) train are the highly nonlinear and complex system that requires advanced control techniques for its stability and efficient performance. In this Project, the design and analysis of Integer PID controller & Fractional Order PID (FOPID) controllers for the Maglev system have been presented.

- Magnetic levitation systems are highly nonlinear and open loop unstable which makes their control very difficult.
- In this project we have designed Controllers like PID, FOPID controllers. Out of these two controllers FOPID gives rapid response like fast settling time, low overshoot and low-rise time as compared to PID controller.
- FOPID controllers can provide better tracking of fast-changing performances.

INTERNHIP

- **Advanced Software Engineering, Walmart Global Tech (Forage)-2023**
  - ➢ Completed the Advanced Software Engineering Job Simulation where I solved technical projects for a variety of teams at Walmart.
  - ➢ Developed a novel version of a heap data structure for Walmart's shipping department, showcasing strong problem-solving and algorithmic skills.
  - ➢ Designed a UML class diagram for a data processor, considering different operating modes and database connections.
  - ➢ Created an entity relationship diagram to design a new database accounting for all requirements provided by Walmart's pet department.

- **Cybersecurity Job Simulation, JPMorgan Chase & Co. (Forage)-2023**
  - ➢ Analyze a Large Dataset of Fraud in Financial Payment Services.
  - ➢ Learn About Application Security Fundamentals and Put it to Use on Your Own Website.
  - ➢ Spam or Ham? Build an Email Classifier.
  - ➢ Design and Develop a System to Tighten Access to Sensitive Information.

Extra-curricular Activities

- Attended a one-day workshop on **Data Analytics** Using R by **IIT Bombay.**
- Attended two-day Virtual workshop on **"Differential Equations"** and **"Their application"** by **IIT MANDI.**
- Attended two-day online workshop on **"Python"** and **"Django"** by **IIT Bombay.**
- Attended Webinar on **"Evolution of Embedded system"** by **Prof. M. Balkrishnan (CSE, IIT Delhi).**

Educational Achievements

1. Awarded Certification in **Software Testing** by IIIT **Bangalore** (Swayam).
2. Awarded Certification in **IoT (Internet of Things)** by IIT **Kharagpur** (Swayam).
3. **Golden Barge** on **Code-Chef** for solving more than **500+ problems**.