Siddhi Pawar

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Education

Vellore Institute of Technology

Bachelor of Science in Computer Science, Current CGPA: 8.11

Akshay Academy Public School

Higher School Certificate (HSC)

St. Raphael's H.S. School

Secondary Certificate (SSC)

Sep. 2022 - Present Vellore, Tamil Nadu

2019-2021

Percentage: 88.8

2019

Percentage: 89.2

Relevant Coursework

- Data Structures and Algorithms
- Machine Learning

- Design and Analysis of Algorithms
- Object-Oriented Programming
- Web Programming
- Computer Architecture

Experience

Khageshvara Aviation Technology

Machine Learning Intern

July 2024 - Present

- Indore, India Conducting an in-depth analysis of cutting-edge path planning algorithms tailored for autonomous drone systems using
- **ROS** (Robot Operating System). • Developing a sophisticated path planning algorithm with ROS, focusing on obstacle detection, avoidance, and
- trajectory optimization for real-time control. Creating mission planning software that integrates advanced object detection, dynamic path planning, and simulation functionalities. Presenting the system design, implementation, and key outcomes.

Projects

${\bf International\ Space\ Drone\ Competition}\ |\ {\it Software\ Team}$

January 2024

- Achieved first prize at ISDC-2024 by designing and implementing dynamic path planning using the A* search algorithm, ensuring optimal obstacle avoidance and seamless waypoint navigation.
- Harnessed the power of NumPy and Pandas for sophisticated data preprocessing and manipulation, significantly enhancing the precision of visual recognition and trajectory optimization algorithms.
- Applied cutting-edge photogrammetry methods with WebODM to convert aerial imagery into high-resolution 3D models and detailed terrain maps for accurate terrain analysis.

BOLT 2.0 | Machine Learning, Web Devlopment

February, 2024

- Developed a comprehensive health-care system integrating an AI chatbot for patient interaction.
- Implemented the chatbot using the Random Forest classification algorithm to answer patient questions, predict diseases, and recommend treatments.
- Contributed to the front-end development using **React** and **Bootstrap**, ensuring a responsive and user-friendly interface.
- Developed machine learning models with Python, leveraging libraries such as Scikit-learn and Pandas for data processing and model training.

Technical Skills

Programming: Python, C/C++, JavaScript*, R*, MATLAB*, HTML, CSS, React, Data Structures and

Algorithms, ROS*

Developer Tools: VS Code, Mission Planner, Colab, Gazebo*

Libraries: NumPy, Pandas, Scikit learn, Matplotlib, Ardupilot Libraries

Leadership / Extracurricular

SEDS-India June 2024 - Present

Software Team

* Spearheaded the organization of the prestigious "Star Party", a highlight event at Gravitas 2023

Robovitics June 2024 - Present

Software Team