Vishvesh Jain

Experience

2020-09 - present
System Engineer
Tata Consultancy Services

2017-07 - 2019-06
Software Developer
Camber Racing, Formula Student Team of SRM IST
Implemented an autonomous system for a Driver-Less Formula Student Car.

2018-06
Software Intern
Amvrin Systems Pvt. Ltd, Noida
Involved in development of Node.Js and MySQL based back end of web-based Inventory Management System .

2017-06
Software Intern
IPragmatech Solutions Pvt. Ltd, Noida
Developed a JDBC based college predictor which recommends colleges based on SAT/GRE scores.

Education

2016 - 2020
SRM institute of Science and Technology, Chennai
- Bachelor Of Technology in Computer Science ; Percentage - 91.25%

2015 - 2016
Step By Step High School, Jaipur
- Higher Secondary (12th) ; Percentage - 92.8%

2013 - 2014
Step By Step High School, Jaipur
- Senior Secondary (10th) ; CGPA - 9.8

Projects

Driver-Less System for FSAE Car
Implemented an autonomous driver-less system using GPS System, an optical Ground Speed Sensor, a LiDAR to detect track limits which is based on Robot Operating System (ROS). Camera image is used for detection of track cones using SVM for trajectory planning and vehicle motion control using RS232 controller and actuators through Vehicle Control Unit (VCU).

Flight Trajectory Prediction for Air Traffic Management
Developed a mechanism using DBSCAN clustering which accurately predicts the flight path of a flight based on historical flight data between the set of airports and proposes a flight trajectory such that it avoids any kind of weather issues.

Airport Operation System
Implemented a Python and MySQL based system which uses historical flight and weather data to provide better visuals to aid air and ground controllers thereby increasing efficiency of aircraft handling operations.

Maze Solver Bot
Developed line follower robot using Arduino and infrared sensors which uses infrared sensors to detect the maze path and Tremaux's algorithm to traverse the maze and find the shortest path from source to destination.

Publications

Flight Trajectory Prediction. JCR. 2020; 7(6): 412-416. doi:10.31838/jcr.07.06.73

Certifications

Machine Learning by Stanford University on Coursera

Python for Everybody (Specialization) by University of Michigan on Coursera

Personal Info

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GitHub
https://github.com/vishvesh-jain

LinkedIn
www.linkedin.com/in/vishvesh-jain

Skills

Languages : Java, C, C++, Python, SQL

Libraries/Tools/Frameworks: Java - Spring, Hibernate, JDBC , Robot Operating System(ROS), LiDAR-SMAL, Data Structures, Algorithms