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BRIEF OVERVIEW / CAREER OBJECTIVE / SUMMARY

To work as a Software Engineer applying my knowledge in the field of testing, designing, and maintenance to cater to the specific needs of the people. I wish to work in a team of motivated individuals who wish to work towards the advancement of the company and its goals.

KEY EXPERTISE / SKILLS

Problem Solving   Data Structures   Algorithms   Computer Networking   Operating Systems   OOPs   SQL   C++   HTML   CSS

EDUCATION

LNM Institute of Information Technology	2020 - 2024
B.Tech. - CSE | CGPA: **7.50 / 10.00**	

Ess Ess Convent Sr.Sec School, Agra, Agra	2020
12th | CBSE | Percentage: **94.00 / 100.00**	

St. George's School, Agra, Agra	2018
10th | CISCE | Percentage: **95.00 / 100.00**	

PROJECTS

Path Planners   01 Jun, 2022 - 01 Aug, 2022
Mentor: Prof. Dr. Rahul Singhal   \| **Team Size:** 2

Key Skills: Programming skills   Pygame   Python   Algorithms   Data Structures

Optimal Path Planning for multiple warehouse robots to accomplish the tasks of picking and delivery of inventory pods. Used A* and Dijkstra algorithm for finding the shortest path and linear programming to solve the task assignment problem. Used PyGame to design , simulate and visualize the working of robots.

INTERNSHIPS

LNMIIT Undergraduate Summer Internship Program   01 Jun, 2022 - 01 Aug, 2022
Summer Intern

Key Skills: Python   Data Structures   Algorithms   Graph   Pygame

Worked on finding the problem statement and compared different algorithms to achieve the objective function in path planning. Worked on various algorithms like A*, RRT, Dijkstra, Artificial Potential Field, Voronoi Diagram etc. used in path planning for autonomous systems. Research on different ways to improve the efficiency of the algorithms and deciding the domain of our project .Taking different considerations and scenarios, planned path for autonomous warehouse robots.

AWARDS AND SCHOLARSHIPS

- Championship in 25th National Abacus Competition (BRAINOBRAIN FEST)

ACHIEVEMENTS

- School Topper in Class X - St. George's School (Unit-II)

PERSONAL INTERESTS / HOBBIES

- Dance
- Painting, Art and creativity

WEB LINKS

- Github - https://github.com/Shreya15102
- LinkedIn - https://www.linkedin.com/in/shreya-agarwal-332289202/