

Manan Madan

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Summary

Committed and Detailed oriented engineer , I value learning about new technologies , more than anything . I like developing algorithms to solve real world problems and have done that in many of my previous projects. I have used various graph algorithms to solve problems in online learning , using other tool such as NLP and web - scraping in my projects.I also have written several Path Planning Algorithms for autonomous traversal.I also have a keen interest in computer vision and have done many projects such as Lane Detection , Feature Detection , Simulating Various Algorithms etc . on OpenCV.

Experience



Research Intern

Netaji Subhas Institute of Technology

May 2020 - Present (2 months +)

- > Working on Analysing Un - Structured data to create ontologies using Natural Language Processing.
- > Applying various graph algorithms to get useful concepts and relationship from the knowledge graph for further analysis.



Senior Software Engineer

ARES Robotics Mars Rover NSIT

Jan 2020 - Present (6 months +)

Coding ,Testing and Guiding Junior Members regarding Path Planning Subsystems of the rover.Also coding and learning about Visual odometry for state estimation of the rover.



Member

ARES Robotics Mars Rover NSIT

Aug 2019 - Jan 2020 (6 months)

Coding and Testing Various Path Planning Algorithms for autonomous traversing of difficult terrain

Education



Netaji Subhas Institute of Technology

Bachelor's degree, Instrumentation And Control Engineering

2018 - 2022



Apeejay School

Student, Mechatronics, Robotics, and Automation Engineering

Licenses & Certifications



C++ and Data Structures - Coding Ninjas India



Algorithms and Data Structures - University of California San Diego

ZRH833WM4CGY



Data Structures - University of California San Diego

Q3EHBQDJTPS3



Algorithms On Graph - University of California San Diego

QZN4NZBHWJXK



Arduino Programming - Udemy

Skills

Programming • Algorithms • Python (Programming Language) • C (Programming Language) • NLTK • Natural Language Processing (NLP) • Robot Operating System (ROS) • C++ • Data Structures • WordNet