



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

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Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project
on "Algorithms Visualizer"

Abstract

The primary aim of this project is to facilitate novice learners in comprehending the fundamental algorithms by providing visual aids, thereby enhancing their understanding of the underlying operations. It utilizes visual tools to demonstrate various sorting algorithms.

"Algorithms Visualizer" is a software tool that allows users to visualize the process of finding a path between two points on a map or a grid.

The tool displays the steps involved in sorting the data, often using animation or other visual aids to help the user understand the process. The application uses algorithms to find the shortest or optimal path between two points. The web application is designed to help students through e-learning and experiment with various algorithms.

Application Design features:

Pause feature that enables the user to temporarily stop the visualization and later resume from where the user had left the visualization. The replay feature allows user to re-watch or visualize again from the beginning. Asking the user to select from the available types of visualizations they prefer as now the user would have a choice for tree-based visualization also.

This application would enable the user to understand difficult topics with ease.

H/W & S/W Requirements

H/W Requirements:
Windows 10 Intel Core i7

S/W Requirements:
JavaScript, CSS, HTML

*Dept R&D: GNITS



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