A picture containing emblem, symbol, logo, badge

Description automatically generated**RN SHETTY TRUST®**

**RNS INSTITUTE OF TECHNOLOGY**

Autonomous Institution Affiliated to VTU, Recognized by GOK, Approved by AICTE

(NAAC ‘A+ Grade’ Accredited, NBA Accredited (UG - CSE, ECE, ISE, EIE and EEE)

Channasandra, Dr. Vishnuvardhan Road, Bengaluru - 560 098

Ph:(080)28611880,28611881 URL: [www.rnsit.ac.in](http://www.rnsit.ac.in)

**Department of Information Science & Engineering**

**Date: 14-07-2024**

**Project Synopsis**

**Subject: Analysis and Design of Algorithms Lab Semester : IV**

|  |  |  |
| --- | --- | --- |
| **Project Title** | Traditional Sorting - Bubble sort, insertion sort, selection sort | |
| **Students Details** | **Name(s)** | **USN(s)** |
| **Ananya Ravikiran Vastare** | **1RN22IS014** |
| **Arun R** | **1RN22IS019** |
| **Chandana B N** | **1RN22IS026** |
| **Abstract of the Project** | **The project "Comparative Analysis of Sorting Algorithms using Streamlit" provides an interactive web app to visualize and evaluate Bubble Sort, Selection Sort, and Insertion Sort. Users can upload an array, see the sorting process, and view execution times. The app also offers a summary of time taken by each method and generates graphical performance comparisons using external scripts. This project showcases the practical use of Streamlit for creating dynamic data analysis tools.** | |

**Student Signature(s) Faculty Incharge**