

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

TYPE YOUR COMPLETE TITLE HERE

**Design and Analysis of Algorithms – CD343AI**

**Experiential Learning (Lab)**

**REPORT**

*Submitted by*

|  |  |
| --- | --- |
| **Student 1** | **USN** |
| **Student 2** | **USN** |
| **Student 3** | **USN** |
| **Student 4** | **USN** |

*Under the guidance of*

|  |
| --- |
| **Name of the Guide**  Affiliation |

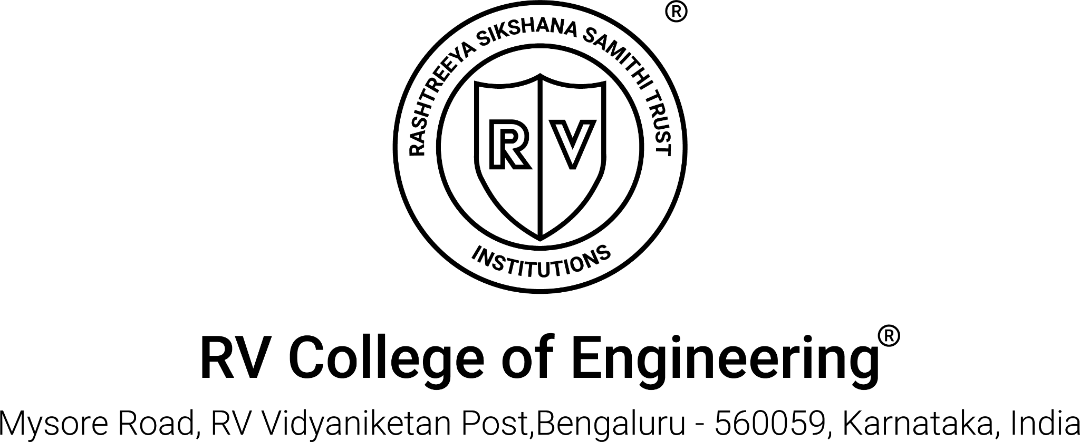
*In partial fulfilment for the award of degree of*

**Bachelor of Engineering**

in

**Department of Computer Science and Engineering**

**2024-2025**

****

**CERTIFICATE**

Certified that the project work titled ***‘Project Title’*** is carried out by **Student Name (USN), Student Name (USN), and Student Name (USN)** who are bonafide students of RV College of Engineering, Bengaluru, in partial fulfilment for the award of degree of **Bachelor of Engineering** **in Computer Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the academic year 2024-2025. It is certified that all corrections/suggestions indicated for the Internal Assessment have been incorporated in the report deposited in the departmental library. The report has been approved as it satisfies the academic requirements in respect of experiential learning work prescribed by the institution for the said degree.

**Signature of Guide Signature of Head of the Department**

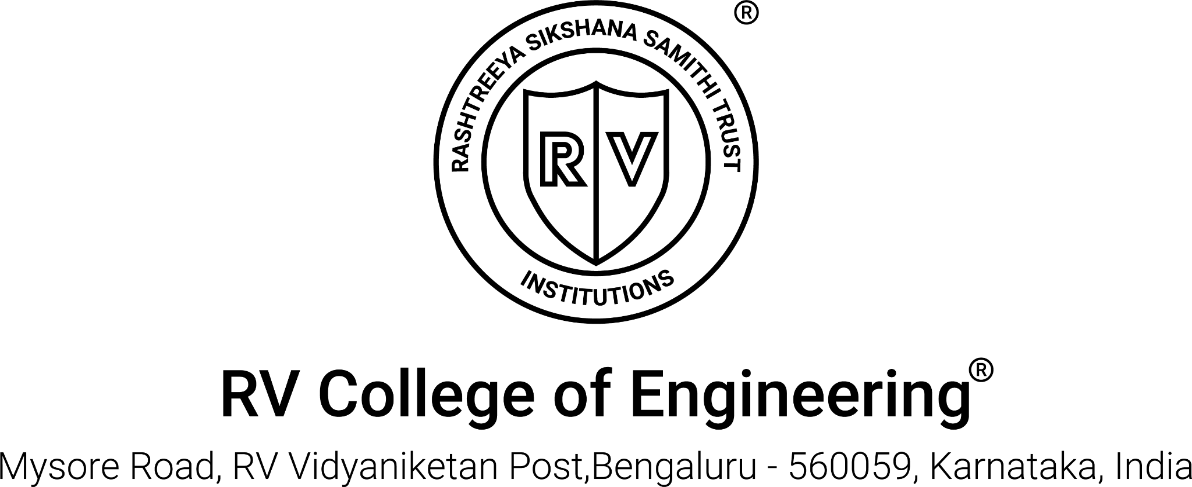
**Guide Name** [**Dr. Shanta Rangaswamy**](http://rvce.edu.in/cs-shantarangaswamy)

**External Viva**

**Name of Examiners Signature with Date**

**1**

**2**

****

**DECLARATION**

We**, Student Names,** students of fourth semester B.E., department of CSE, RV College of Engineering, Bengaluru, hereby declare that Experiential Learning (Lab) titled ***‘Project Title’*** has been carried out by us and submitted in partial fulfilment for the award of degree of **Bachelor of Engineering** in **Computer Science and Engineering** during the academic year 2024-25

We also declare that any Intellectual Property Rights generated out of this project carried out at RVCE will be the property of RV College of Engineering, Bengaluru and we will be one of the authors of the same.

[

Place: Bengaluru

Date:

**Name Signature**

**1.** NAME 1 (USN)

**Abstract**

(One page only with 4 to 5 paragraphs)

This page should highlight the significant contributions carried out in the major project

Paragraph 1: should include the introduction to topic, work done in the field so far, gap to propose new idea, objectives.

Paragraph 2 (if needed split the contents to two paragraphs): should include complete methodology, simulation tools used, hardware (if implemented) application of the project.

Paragraph 3: should include the results obtained, analysis of results and interpretation. Quantify the results and compare with the existing results from the literature.

Paragraph 4: should include conclusions drawn and the directions for the future work.

**Table of Contents**

**Abstract**

**Chapter 1: Introduction***Overview of the problem statement or case study, its significance, and the objectives of the proposed solution.*

**Chapter 2: Solution Design**

* *Detailed design of the proposed solution.*
* *Selection and justification of appropriate data structures.*
* *Choice of algorithmic strategies (e.g., Divide & Conquer, Greedy, Dynamic Programming) with rationale.*
* *Preliminary efficiency and feasibility analysis.*

**Chapter 3: Implementation Details**

* *Description of the implementation approach.*
* *Use of coding best practices including modularity, readability, and maintainability.*
* *Application of recursion or iteration, and any performance optimizations.*

**Chapter 4: Results and Discussion**

* *Execution outcomes and validation of algorithm correctness.*
* *Handling of special or edge cases.*
* *Complexity analysis and performance evaluation.*
* *Comparative assessment of alternative algorithms.*
* *Discussion of potential improvements or refinements.*

**Chapter 5: Conclusion and Future Scope**

* *Summary of key findings and overall effectiveness of the solution.*
* *Real-world applicability and relevance.*
* *Additional innovation (if any): Novel approaches, enhanced optimizations, or industry/research applicability*

**Appendix: Draft Paper with plagiarism report**

**References**