



*Mini Project Report On*

**Project Title**

*Submitted in partial fulfillment of the requirements for the  
award of the degree of*

**Bachelor of Technology**

*in*

***Computer Science & Engineering***

**By**

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**Department of Computer Science & Engineering  
Rajagiri School of Engineering & Technology (Autonomous)  
(Affiliated to APJ Abdul Kalam Technological University)**

**Rajagiri Valley, Kakkanad, Kochi, 682039**

**May 2024**

# CERTIFICATE

*This is to certify that the mini project report entitled "**Title**" is a bonafide record of the work done by **Student Name (UID)**, **Student Name (UID)**, **Student Name (UID)**, **Student Name (UID)**, submitted to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology (B. Tech.) in Computer Science and Engineering during the academic year 2023-2024.*

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# ACKNOWLEDGEMENTS

I wish to express my sincere gratitude towards Dr P. S. Sreejith, Principal of RSET, and Dr. Preetha K.G., Head of the Department of Computer Science and Engineering for providing me with the opportunity to undertake my mini project, "Project Title".

I am highly indebted to my project coordinators, **Name(s)**, Designation, Department of Computer Science and Engineering for their valuable support.

It is indeed my pleasure and a moment of satisfaction for me to express my sincere gratitude to my project guide **Name of Guide** for his/her patience and all the priceless advice and wisdom he/she has shared with me.

Last but not the least, I would like to express my sincere gratitude towards all other teachers and friends for their continuous support and constructive ideas.

**Name of Student**

**Name of Student**

**Name of Student**

**Name of Student**

# **Abstract**

Insert your abstract here. The abstract should include a concise and clear description of the project work done. It should highlight the advantages of the project compared to existing works. Also, include at least 3 to 5 key words.

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# List of Abbreviations

Acronym - Expansion

# Chapter 1

## Introduction

### 1.1 Background

This section should outline the background of the project under consideration highlighting current scenarios and its importance. Maximum content is around 1 page.

### 1.2 Problem Definition

This section should mention the aim of the project. The problem should be defined in one or two sentences.

### 1.3 Scope and Motivation

This section mentions scope and motivation, which should be written as two paragraphs. The first paragraph describes the scope, whereas the second one describes the motivation. Write in around 5 sentences each.

You may insert tables into your document using the given code:

Title 1	Title 2	Title 3
1	Content 1	Content 2
2	Content 3	Content 4

Table 1.1: Insert tables here

### 1.4 Objectives

- This section should be a numbered list. Five to six objectives are encouraged.

## **1.5 Challenges**

This section briefs the challenges involved in the project in two or three sentences.

## **1.6 Assumptions**

This section briefs the assumptions in the project in two or three sentences or as a numbered list.

## **1.7 Societal / Industrial Relevance**

This section describes where the project can be applied, either for the society or the industry. Write the relevance applicable for the work.

## **1.8 Organization of the Report**

This section should outline a roadmap of the contents in the report.

## Chapter 2

### Software Requirements Specification

Insert your SRS document here.

#### 2.1 Introduction



Figure 2.1: Insert your images here, and provide necessary captions

#### 2.2 Overall Description

#### 2.3 External Interface Requirements

You can insert equations into your file using the below code:

$$a = b + c \tag{2.1}$$

$$= y - z \tag{2.2}$$

## 2.4 System Features

## 2.5 Other Nonfunctional Requirements

## Chapter 3

# System Architecture and Design

### 3.1 System Overview

This section gives an overview of the project. Detailed architecture diagram is expected in this section. The entire process has to be outlined in detail. You can write upto 2 pages.

### 3.2 Architectural Design

This section can use the design tools for a software product development like use case diagram, sequence diagram, ER diagram etc. No textual description is required. The titles for these diagrams should be chosen carefully so that they are self explanatory.

### 3.3 Dataset identified

This section describes the data source used in the project. Brief its properties and refer it to the appropriate location. Sample subsets of the dataset can be highlighted.

### 3.4 Proposed Methodology/Algorithms

This section describes in detail the methodologies or algorithms associated with your work. Algorithms should be written in appropriate format.

### 3.5 User Interface Design

The user interface design (wireframe designs) can be highlighted in this section. The figures titles should be in a chronological order and self explanatory.

### **3.6 Database Design**

The detailed database design and its schema is expected in this section. The database used in the work can be mentioned here. The reason for choosing the database can be substantiated in this section.

### **3.7 Description of Implementation Strategies**

This section details the important implementation strategies used in your project. For example, (1) if you are doing a audio/ video capture, what is your python library and associated methods for doing that (2) if you are designing a CNN, how did you do that in the language which you are using for implementation (3) what are the different methods in the language you will use to evaluate your work. Small snippets of code can be supplemented to support your strategy.

### **3.8 Module Division**

This section describes the different modules involved in this project and a small description of the same is expected. This section ends with the information of which module is assigned to each project member.

### **3.9 Work Schedule - Gantt Chart**

Outline the work schedule in the appropriate chart format.

## Bibliography

- [1] H. Garg and M. Dave, "Securing IoT Devices and SecurelyConnecting the Dots Using REST API and Middleware," 2019 4th International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU), Ghaziabad, India, 2019, pp. 1-6, doi: 10.1109/IoT-SIU.2019.8777334.
- [2] M. Ebrahimi, Y. Chai, H. H. Zhang and H. Chen, "Heterogeneous Domain Adaptation With Adversarial Neural Representation Learning: Experiments on E-Commerce and Cybersecurity," in IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. 45, no. 2, pp. 1862-1875, 1 Feb. 2023, doi: 10.1109/TPAMI.2022.3163338.
- [3] Reference 3
- [4] Reference 4
- [5] Reference 5
- [6] Reference 6
- [7] Reference 7
- [8] Reference 8
- [9] Reference 9
- [10] Reference 10