A SYNOPSIS ON

TITLE

Submitted in partial fulfilment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE & ENGINEERING (Write Appropriate Program Name)

Submitted by:

Student Name 1	**University Roll No.**
Student Name 2	**University Roll No.**
Student Name 2	**University Roll No.**
Student Name 2	**University Roll No.**

Under the Guidance of

Guide Name

Designation

Project Team ID: ID No.

Department of Computer Science and Engineering
Graphic Era (Deemed to be University)
Dehradun, Uttarakhand

September-2025

Graphic Era
Deemed to be
University
DEHRADUN

CANDIDATE'S DECLARATION

I/We hereby certify that the work which is being presented in the Synopsis entitled **"Title of the project"** in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering **(Write Appropriate Program Name)** in the Department of Computer Science and Engineering of the Graphic Era (Deemed to be University), Dehradun shall be carried out by the undersigned under the supervision of **Guide Name, Designation**, Department of Computer Science and Engineering, Graphic Era (Deemed to be University), Dehradun.

Name1	University Roll no1	signature
Name2	University Roll no2	signature
Name3	University Rollno3	signature
Name4	University Roll no4	signature

The above mentioned students shall be working under the supervision of the undersigned on the **"Title of the project"**

Signature
Supervisor

Signature
Head of the Department

Internal Evaluation (By DPRC Committee)

Status of the Synopsis: Accepted / Rejected

Any Comments:

Name of the Committee Members: **Signature with Date**

1.

2.

Table of Contents

Chapter 1

Introduction and Problem Statement

(2 to 3 pages)

In the following sections, a brief introduction and the problem statement for the work has been included.

1.1 Introduction

As estimated by John et al. in [1], ……..The detailed review of related techniques has been given in [2, 3].

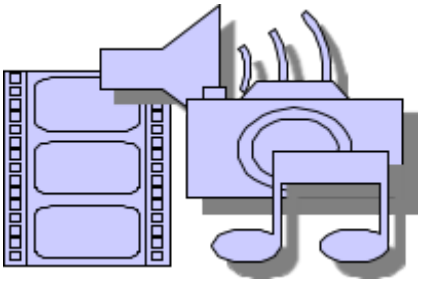

Figure 1.1 Wrapper method for feature selection

1.2 Problem Statement

The problem statement for the present work can be stated as follows:

…..

Chapter 2

Background/ Literature Survey

(2 to 3 pages)

In the present times, research work is going on in context of ……In this chapter some of the major existing work in these areas has been reviewed.

Chapter 3

Objectives

The objectives of the proposed work are as follows:

3 to 5 Objectives in pointwise

(1 page)

Chapter 4

Possible Approach/ Algorithms

(2 to 4 pages)

Figure 4.1 Filter method for feature selection

$$RMSE = \sqrt{\frac{(p_1 - q_1)^2 + \ldots + (p_n - q_n)^2}{n}} \quad (4.1)$$

Table 4.1 Pseudo code of the ABC algorithm

Input.

D- the dataset, *k*-the number of clusters and α-the fuzzifier

begin

1. Initialize *Z* by choosing *k* points from *D* randomly;
2. Initialize *W* with $w_{jh} = \frac{1}{d}$ $(1 \leq j \leq k, 1 \leq h \leq d)$;
3. Estimate *U* from initial values of *W* and *Z* according to Eq. 2.7.
4. Let *error = 1* and *Obj* = $E_{\alpha,\varepsilon}(W,Z)$;
5. ***while*** *error > 0* ***do***
6. Update *Z* according to Eq. 2.6 ;
7. Update *W* according to Eq. 2.5;
8. Update *U* according to Eq. 2.7;
9. Calculate *NewObj*= $E_{\alpha,\varepsilon}(W,Z)$;
10. Let *error* = | *NewObj* – *Obj*|, and then *Obj* <= *NewObj*
11. ***end while***
12. Output *W, Z* and *U*

End

References

[1] N. K. Kanhere and S. T. Birchfied, “Real-time incremental segmentation and tracking of vehicles at low camera angles using stable features,” *IEEE Trans. Intell. Transp. Syst*., vol. 9, no. 1, pp.148-160, March 2008 **(Example : Journal papers)**

[2] K. Onoguchi, “Moving object detection using a cross correlation between a short accumulated histogram and a long accumulated histogram”, Proc. 18th Int. Conf. on Pattern Recognition, Hong Kong, August 20 - 24, 2006, vol. 4, pp. 896 – 899 **(Example : Conference papers)**

[3] T. H. Cormen, C. E. Leiserson, R. L. Rivest and C. Stein, “Introduction to Algorithms”, 2nd ed., The MIT Press, McGraw-Hill Book Company, 2001 **(Example : Text Book/ Magazine)**

[4] Open Source Computer Vision (OpanCV) [Online]. Accessed on 21st April 2022: http://opencv.willowgarage.com/wiki/ **(Example : Website)**