**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**

**Submitted by:**

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

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

**Student Name 3** **University Roll No.**

**Student Name4 University Roll No.**

***Under the Guidance of***

***Supervisor Name***

***Designation***

**Project Team ID:  ID No.**



**Department of Computer Science & Engineering**

**Graphic Era Hill University, Bhimtal, Uttarakhand**

**March-2025**



**CANDIDATE’S DECLARATION**

I/We hereby certify that the work which is being presented in the Synopsis entitled **“Title of the project”** in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science & Engineering of the Graphic Era Hill University, Bhimtal campus and shall be carried out by the undersigned under the supervision of **Guide Name, Designation**, Department of Computer Science & Engineering, Graphic Era Hill University, Bhimtal.

Name1   University Roll no1 signature

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

         Signature Signature

**Supervisor** **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.

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**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. **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. **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**

**Hardware and Software Requirements**

4.1 Hardware Requirements

|  |  |  |
| --- | --- | --- |
| Sl. No | Name of the Hardware | Specification |
|  |  |  |
|  |  |  |
|  |  |  |

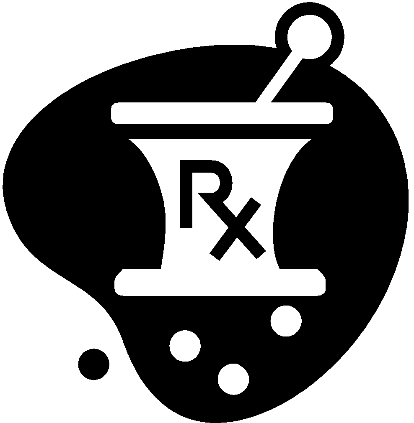
4.2 Software Requirements

|  |  |  |
| --- | --- | --- |
| Sl. No | Name of the Software | Specification |
|  |  |  |
|  |  |  |
|  |  |  |

**Chapter 5**

**Possible Approach/ Algorithms**

**(2 to 4 pages)**



**Figure 4.1** Filter method for feature selection

*RMSE =* (p1-q1)2+ … +(pn-qn)2n                                         (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 *wjh =* 1d(1≤j≤k,1≤h≤d); 3. Estimate *U* from initial values of *W* and *Z* according to Eq. 2.7. 4. Let *error = 1* and *Obj* = *Eα,ε(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*= *Eα,ε(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)**