|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Bachelors of Technolgy in Computer Science & Engineering** | |  | **Minor** | **Major** |
| **Project Title** | **Geyser Eruption Analysis by the use K-mean clustering algorithm** | | | | | **Mentor Name** | **Project Number** | |
| **Bhagwant Singh** | |
|  | **S.No** | **Rollnumber** | **Branch** | **Name** | **Role** | | | **Signature** |
| 1. | R2142201903 | Btech CSE (Bigdata hons.) | Anushka Sharma |  | | |  |
| 2. | R2142201887 | Btech CSE (Bigdata Non hons.) | Garvita Adhikari |  | | |  |
| 3. | R214220624 | Btech CSE (Bigdata hons.) | Krish Aggarwal |  | | |  |
| 4. | R2142201245 | Btech CSE (Bigdata Non hons.) | Udbhav Singh Sengar |  | | |  |

**Cluster Head**

**Project Mentor**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  | |  |  |  | |  |  |  | | | |  |
|  | | **Date** |  | |  |  |  |  | | |  | **Project Status**  **Activity Coordinator** | | | |
|  | |  | **Understanding of Project** | | **Project Working** | **Soft Skills** | **Report** | **Mentor Marks** | | | **Total Marks** |
| **R.No** | **25 Marks** | | **35 Marks** | **10 Marks** | **15 MARKS** | **85 MARKS** | | | **100 MARKS** |  | | | |  |
|  | **0** | | **0** | **0** | **0** | **0** | | | **0** |  | | | | |
|  | **0** | | **0** | **0** | **0** | **0** | | | **0** |
|  | **0** | | **0** | **0** | **0** | **0** | | | **0** |
| **0 0 0 0 0 0** | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |  |
|  | | **Synopsis Evaluation** | | | | | | | | | | |  |  | |  |
|  |  |  | | |  | **Theoretical Understan** | | **ding** | | |  | |  |  | |
| **Rollno** | **Problem(4 Marks)** | | | **Algorithm(4**  **Marks)** | **Data /Data structure(4**  **Marks)** | | **SWOT Analysis(4**  **Marks)** | | | **Area of Application(4**  **Marks)** | | **Total Marks( 20)** | |
|  |  | | |  |  | |  | | |  | | 0 | |
|  |  | | |  |  | |  | | |  | | 0 | |
|  |  | | |  |  | |  | | |  | | 0 | |
|  | | 0 | | | | | | | | | | | | | |
| **Panel Remark** | |  | |  | |  | | |  | | |  | | | |
| **Reviewer 1** | | **Reviewer 2** | | **Reviewer 3** | | | **Reviewer 4** | | | **Reviewer 5** | | | |
|  | | | | | | | | | | | | | | | |  |
|  | | **Mid- Term Evaluation** | | | | | | | | | | |  |  | |  |
|  |  |  | | **DESIGN & DEVELOP** | | | | **MENT** | | |  | |  |  |  |
| **Rollno** | **Technical Diagram(5**  **Marks)** | | **Programming Concepts(5 Marks)** | | | | **IPC(5 Marks)** | | | **Libraries(5 Marks)** | | **SRS(**  **10)** | **Total(20**  **Marks** |
|  |  | |  | | | |  | | |  | |  | 0 |
|  |  | |  | | | |  | | |  | |  | 0 |
|  |  | |  | | | |  | | |  | |  | 0 |
|  | | 0 | | | | | | | | | | | | | |
| **Panel Remark** | |  | |  | |  | | |  | | |  | | | |
| **Reviewer 1** | | **Reviewer 2** | | **Reviewer 3** | | | **Reviewer 4** | | | **Reviewer 5** | | | |
|  | | | | | | | | | | | | | | | |  |
|  | | **End-Term Evaluation** | | | | | | | | | | |  |  | |  |
|  |  |  | |  | | **Testing & Impleme** | | **ntation** |  | |  | |  |  | |
| **Rollno** | **Theoretical Knowledge(5**  **)** | | **Computational Knowledge(5)** | | **Test Case (10 )** | | **Soft Skills (10 )** | **Report(5 )** | | **Core Computational Skills(15 )** | | **Total (50 )** | |
|  |  | |  | |  | |  |  | |  | | 0 | |
|  |  | |  | |  | |  |  | |  | | 0 | |
|  |  | |  | |  | |  |  | |  | | 0 | |
|  | | 0 | | | | | | | | | | | | | |
| **Panel Remark** | |  | |  | |  | | |  | | |  | | | |
| **Reviewer 1** | | **Reviewer 2** | | **Reviewer 3** | | | **Reviewer 4** | | | **Reviewer 5** | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Branch** | Bachelors of Technolgy in Computer Science Engineering | | | | |  |  | **Minor** | **Major** | |
| **Project Title** | **Geyser Eruption Analysis by the use K-mean clustering algorithm** | | | | | | **Mentor Name** | | | **Bhagwant Singh** | |
| **Abstract** | The reason for this undertaking is to comprehend geysers better and to anticipate parts of their way of behaving. This examination explores the spans at which explicit geyser erupts and submits numerical scatter plots for the time stretches by the utilization of K mean clustering calculation . | | | | | | | | | | |
|  |
| **Objective** | To examine data of various time stretches at which geyser eruption occurs in order to compute and compare the mean time interval of eruption. | | | | | | | | | | |
|  |
| **Methodology** | K-means Clustering for Old Faithful Geyser Eruptions Analysis | by Kasumi  Gunasekara | MediumThis implementation is performed using C++ & Python programming language with related libraries to achieve the task. For the K-means clustering algorithm, some specific values are assigned for K , and clusters have been created from the standardized data. Because the features could not be in the same measurement units, standardizing data involves including data with a zero mean and a one standard deviation. And the centroid calculated from the dataset are then plotted in the graph. | | | | | | | | | | |
|  |
| **Progress 1** |  | | | | | | | | | | |
|  |
|  |  | **Marks** | **10** | **10** | **10** | **10** | **10** | **10** | **10** | **15** |
| **Mentor Remark** |  | | **Roll Number** | **Step 1** | **Step 2** | **Step 3** | **Step 4** | **Step 5** | **Step 6** | **Step 7** | **Internal** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Date/Mentor Signature** |  |  |  |  |  |  |  |  |
| **Progress 2** |  | | | | | | | | | | |
|  |
|  |  | **Marks** | **10** | **10** | **10** | **10** | **10** | **10** | **10** | **15** |
| **Mentor Remark** |  | | **Roll Number** | **Step 1** | **Step 2** | **Step 3** | **Step 4** | **Step 5** | **Step 6** | **Step 7** | **Internal** |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Date/Mentor Signature** |  |  |  |  |  |  |  |  |

**Guideline: 1)** A project group can be of maximum 4 members and no alteration in the group member will be entertained later.

**Guideline: 2)** Methodology should have following steps Step1: Literature Review; Step2: Identification Of Requirement (Type Of Data source, Amount Of Data, & Format of Data); Step3: Identification of Algorithm; Step4 : Comparative study; Step5: Design and Development of System/Architecture; Step 6: Implementation; Step7: Results **Guideline:3)** Student should upload softcopies of all the documents (reports and power point presentations) in “Project Directory”, 24 hrs prior to evaluation.

**Guideline:4)** Panel member will give feedback to individual on the scale of 1 to 5 and this scale will change for defaulter i.e. 1 to 3 scale. 1: Poor 2: Average 3: Good 4: Excellent 5: Outstanding