**ACADEMIC YEAR 2020-21 EVEN SEM**

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| Department | Information Technology |
| Subject | Mini Project - TE SEM VII |

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| Group No. | 12 |

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| Project Title | Predicting Heart Disease using Machine Learning |
| Type | MACHINE LEARNING AND DATA MINING |

**Students Details:**

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| **Sr. No.** | **Name of the Student** | **Correspondence Address** | **Email Id** | **Contact No.** | |
| **Resi.** | **Mobile** |
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| 3 | Sarthak Jadhav | dahivali,sonarali,karjat | jadhav.sarthak@kgce.edu.in |  | 7264028420 |
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| Instructor/Guide | Prof .Poonam B. Lad |

Project Coordinator Head of Dept.

**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **1** | **10-7-2020** | | **17-7-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with our guide on various machine learning algorithms | | | | | | |
| regarding our project. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Still working on machine learning algorithms. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Working on machine learning algorithms and discussion with our | | | | | | |
| guide**.** | | | | | | |
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| **Group Code :** 12 **Date : Signature of Guide** | | | | | | |

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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **2** | **17-7-2020** | | **24-7-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discuss with our guide on various machine learning algorithms . | | | | | | |
| regarding our project. .we have discussed various algorithms like faster R-CNN, HOG, | | | | | | |
| SPPNET,YOLO,SSD. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| We have to select some machine learning algorithms out of all. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Selection of machine learning algorithms and discussion with guide. | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **3** | **24-7-2020** | | **31-7-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with our guide on selected machine learning algorithm | | | | | | |
| which are faster R-CNN, HOG, SPPNET,YOLO,SSD. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on selected algorithms which are faster R-CNN,YOLO,SSD . | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Working on selected machine learning algorithms also discussion | | | | | | |
| With guide. | | | | | | |
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| **Group Code :** 12 **Date : Signature of Guide** | | | | | | |

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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **1** | **7-8-2020** | | **14-8-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with guide on working of faster R-CNN, understanding | | | | | | |
| faster R-CNN and way of solving an object detection task and also discussed problems | | | | | | |
| with R-CNN. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on R-CNN, YOLO and SSD machine learning algorithms. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with guide on other algorithms such as R-CNN,YOLO , | | | | | | |
| And SSD . | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **2** | **14-8-2020** | | **21-8-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with guide on working of R-CNN which is first large and | | | | | | |
| successful application of convolution neural networks to the problem of object | | | | | | |
| localization, detection, and segmentation. also discussed limitations of R-CNN . | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on Yolo and single shot detector(SSD) | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion on YOLO and SSD object detection algorithms with | | | | | | |
| ourguide. | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **3** | **21-8-2020** | | **28-8-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with guide on Yolo which is much faster than R-CNN | | | | | | |
| achieving object detection in real time, and also discussed YOLO models | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on and single shot detector(SSD) and discussion with | | | | | | |
| Our guide**.** | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with guide on single shot detector (SSD) object detection | | | | | | |
| algorithm. | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **1** | **4-9-2020** | | **11-9-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion on single shot detector(SSD) with our guide it predicts | | | | | | |
| the location of an object within that region. and also discussed working of SSD. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| We selected YOLO and single shot detector (SSD) because these | | | | | | |
| object detection algorithms gives better results and are fast. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with our guide on final selection and working of YOLO | | | | | | |
| and single shot detector(SSD). | | | | | | |
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| **Group Code :** 12 **Date : Signature of Guide** | | | | | | |

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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **2** | **18-9-2020** | | **25-9-2020** | |
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| **Tasks Completed:** | | | | | | |
| Due to matching of our project with others we have to change our | | | | | | |
| topic. we are working on research papers to select topics | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| we give three topics to our guide and wait for the finalization of | | | | | | |
| new topic**.** | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with our guide on final selected topic and working | | | | | | |
| on research papers. | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **1** | **2-10-2020** | | **9-10-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with our guide on final selected topic. the topic is heart | | | | | | |
| disease prediction using machine learning algorithms. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| We are working on which are those algorithms and select some | | | | | | |
| algorithms which are best for heart disease prediction. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with our guide on selected machine learning algorithms. | | | | | | |
| which we are used in our project. | | | | | | |
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| **Group Code :** 12 **Date : Signature of Guide** | | | | | | |

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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **2** | **9-10-2020** | | **16-10-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion on selected machine learning algorithms which are | | | | | | |
| Logistic regression, K-Nearest neighbors , random forest and decision tree. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on research papers related logistic regression , | | | | | | |
| k-nearest and random forest and decision tree. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| We are selected four research with help with our guide and | | | | | | |
| working on research papers of algorithms. | | | | | | |
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| **Group Code :** 12 **Date : Signature of Guide** | | | | | | |

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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **3** | **16-10-2020** | | **23-10-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with our guide on logistic regression which is use in | | | | | | |
| various fields. It is used to predict mortality in injured patients also risk of developing | | | | | | |
| Disease. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on k-nearest neighbor and collect research papers, | | | | | | |
| how efficient is and performance of k-NN. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with our guide on k-nearest neighbor and working on it. | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **1** | **6-11-2020** | | **13-11-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with our guide on k-nearest neighbor classifier. it is | | | | | | |
| use for classification and regression. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on random forest and collect research papers ,information | | | | | | |
| onit**.** | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with our guide on random forest also working , selected | | | | | | |
| papers and information. | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **2** | **13-11-2020** | | **20-11-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with our guide on random forest and selection of | | | | | | |
| various research papers . it ensemble learning method for classification, regression and | | | | | | |
| Other tasks operate by multitude of decision tree. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on decision tree and collect research papers , information | | | | | | |
| onit**.** | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with our guide on decision tree also working , selected | | | | | | |
| papers and information. | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **3** | **20-11-2020** | | **27-11-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion on decision tree with our guide and selection of various | | | | | | |
| research papers . In decision tree data is continuously split according to parameter | | | | | | |
| It can be explained by entities nodes and leaves . | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Selectionofbestalgorithms with the help of our guide. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with guide on selected algorithms which we are used | | | | | | |
| In our project. | | | | | | |
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**Minutes of Project Meeting**

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| **Project Work Progress Report** | | **Week No** | **Start Date** | | **End Date** | |
| **1** | **4-12-2020** | | **11-12-2020** | |
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| **Tasks Completed:** | | | | | | |
| Discussion with our guide on selected algorithms which are | | | | | | |
| Logistic regression, K-nearest neighbor , random forest. | | | | | | |
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| **Tasks Remaining:** | | | | | | |
| Working on algoritms we will start our implementation | | | | | | |
| in next semester. | | | | | | |
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| Remarks by Instructor about Progress in the Week | | | | | | |
| * Excellent | * Good | | | * Satisfactory | | * Not Satisfactory |
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| **Next Week Plan:** | | | | | | |
| Discussion with our guide on implementation of logistic regression , | | | | | | |
| k-nearest neighbor, random forest algorithms. | | | | | | |
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| **Group Code :** 12 **Date : Signature of Guide** | | | | | | |