

School Of Computer Science University Of Petroleum and Energy Studies P.O. Bidholi, Via-Prem Nagar DEHRADUN-248007

Issue Date:

Bachelors of Technolgy in Computer Science & Engineering

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Minor	\checkmark	Major	

Project Title

Player Selection(IPL Team) using Clustering algorithm

Mentor
Name
Mr. Deepak Kumar Sharma

S.No	Rollnumber	Branh	Name	Role	Signature
1.	R172218064	CSE-BIGDATA	Lakshay Vasuja	Programmer/Developer	Lakshay Vasuja
2.	R172218063	CSE-BIGDATA	Lakshay Sharma	Programmer/Developer	Lakshay Sharma
3.	R172218045	CSE-BIGDATA	Divyansh Chandna	Programmer/Developer	Divyansh Chandna

Head Of Department Project Mentor Project Status Title Approval Mid-Term End-Term **Progress Report** Total Marks Yes/ No Authenticity Synopsis Satisfactory Yes/ No **Activity Coordinator** Synopsis Evaluation 30 Marks 30 Marks 40 Marks Body Language Dress Code Communication Presentation Skill Analytical Skill Rollnumber 1|2|3|4|5|1|2|3|4|5|1|2|3|4|5|1|2|3|4|5|1|2|3|4|5 1 2 3 4 5 **Panel Remark** keviewer 1 keviewer z keviewer 3 keviewer 4 keviewer 5 Mid- Term Evaluation 30 Marks 30 Marks 40 Marks Body Language Dress Code Communication Presentation Analytical Skill Report 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 5 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | **Panel Remark** keviewer i keviewer / keviewer 3 keviewer 4 keviewer 5 **End-Term Evaluation** 30 Marks 30 Marks 40 Marks Communication Presentation Report Reviewer5 Skill | Skill 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | **Panel Remark** Reviewer 5 Reviewer 1 Reviewer 2 **Reviewer 3** Reviewer 4



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Bachelors of Technolgy in Computer Science Engineering Minor Major Mr. Deepak Kumar **Project Title Mentor Name** Player Selection(IPL Team) using Clustering algorithm Sharma Abstract This project is mainly designed to analyze and extract some important information from IPL dataset. We will calculate the probability between toss winning and match winning. K-means algorithm will be used to create a cluster of players(batsman and bowlers) depending on various factors like bowling speed, maximum wicket takers ,average score, run rate, away or home games etc. Keeping in mind the result of clusters, the budget of the team and preference of players we can select a really good team at the time of team selection or players auction and hence the results can be improved. The purpose behind analysing all this data is to improve the game, and take it to the next level. Objective To use K-means clustering algorithm to create clusters of players(batsman,bowlers) based on various properties and similarities. If you keep budget and priority of players as a factor then as a result we can select a really good team at the time of team selection or players auction To calculate the probability between toss winning and match winning. Predicting the events that may happen in IPL follows the past data. so we will first read the data from CSV file then preprocess it with the Methodology desired formats according to the needs. Effective use of File Handling and Array of Structures as the storage options and we will extract the data. Cleaning the data and making it ready for the analysis will be our first priority. Then Diving deep into the clustering concepts, we use K-MEANS Algorithm to create clusters of the players considering both the bowler or batsman and the whole scenario will be based on characteristics such as bowling speed, runs scored and the maximum wickets taken. Analysing the clusters made we will focus on predicting how the factors will improve the game for players. Prime focus of selecting the cream players from the group's/cluster's will give us our dream team. Progress 1 Marks 10 10 10 10 10 10 10 10 Mid-End-Rollno/Mar Step Step Step Syno Mentor Step 1 Step 3 Step 4 Step 5 ks(10) psis term Term Date/Ment Signature Progress 2 Marks 10 10 10 10 10 10 10 10 10 10 Step Step Mid-End-Step Svno Mentor Rollno Step 1 Step 3 Step 4 Step 5 psis term Term Date/Ment 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.