

Engineering

## Issue Date: 15/09/2021

**UPES Bachelors of Technolgy in Computer Science &** UNIVERSITY WITH A PURPOSE

Minor	$\checkmark$	Major	
Project Number 🔸	1		

**Project Title** 

Student Segmentation using Clustering Algorithms

Mentor Name

Dr. Sujoy Chatterjee

S.No	Rollnumber	Branch	Name	Role	Signature		
1.	R177219143	CSE AI and ML	Rajneesh	Coding and Documentation	Rajneesh		
_		CSE AI and ML	Rohan Nyati	Coding and Documentation	Rohan Nyati		
3.	R177219170	CSE AI and ML	Shantanu Jaswal	Coding and Documentation	Shantanu Jaswal		
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## Sujoy Chatterjee

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

Major Bachelors of Technolgy in Computer Science Engineering Minor **Project Title Mentor Name** Student Segmentation using Clustering Algorithms Dr. Sujoy Chatterjee **Abstract** As the colleges have been planning to open again after one harsh year we are planning to create a project that helps colleges to get an idea about how many students are fully vaccinated and will be joining the college after this pandemic. We will be creating some random data on which we will be implementing clustering algorithms that will help us get predictions about the current mental state of the students in terms of academic knowledge and how much they were able to learn and understand during this pandemic on the basis of which colleges will be able to predict which student needs how much help and how many extra classes will be required for that student and will be able to group them on the basis of that, thus help them get back on track. Objective 1. Clear understanding of Clustering algorithms 2. To create a way for colleges to obtain a better idea about how much help does a student requires after returning to college to improve their academic status 3. To create clusters of students on the basis of their current academic knowledge. Predictive analytics is the use of data, statistical algorithms, and machine learning techniques to identify the likelihood of future outcomes based on historical data. It involves certain manipulations on data from existing data Methodology sets with the goal of identifying some new trends and patterns. These trends and patterns are then used to predict future outcomes and trends. Progress 1 10 10 Marks 10 10 10 10 10 10 10 10 Rollno/Mar Step Step Step Syno Mid-End-Mentor Step 1 Step 3 Step 4 Step 5 ks(10) psis term Term Remark Date/Ment Signature Progress 2 Marks 10 10 10 10 10 10 10 10 10 10 Step Step Step Svno Mid-End-Rollno Step 1 Step 3 Step 4 Step 5 Mentor 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.

1: Poor 2: Average