PRCP-1026-Teaching Assistance

Problem Statement

Task 1:- Prepare a complete data analysis report on the given data.

Task 2:- Build a model that can accurately predict the performance of the students.

Dataset Link:

https://d3ilbtxij3aepc.cloudfront.net/projects/CDS-Capstone-Projects/PRCP-1026-TeachingAssistance.zip

The data consist of evaluations of teaching performance over three regular semesters and two summer semesters of 151 teaching assistant (TA) assignments at the Statistics Department of the University of Wisconsin-Madison. The scores were divided into 3 roughly equal-sized categories ("low", "medium", and "high") to form the class variable.

Attribute Information:

1. Native_teacher: Whether or not the TA is a native English speaker (binary); 1=English speaker, 2=non-English speaker

2. Instructor: Course instructor (categorical, 25 categories)

3. Course (categorical, 26 categories)

4. Semester: Whether instructor took classes in Summer(1) or Regular(2)

5. Class size (numerical): How many participants joined the session.

6. Class attribute (categorical) 1=Low, 2=Medium, 3=High

Model Comparison Report

Create a report stating the performance of multiple models on this data and suggest the best model for production.

Report on Challenges faced

Create a report which should include challenges you faced on data and what technique used with proper reason.

Note:-All above task has been created on single jupyter notebook and share the same while final submission of project.