

Task for Lab-4

04-02-2026

1. As an extension to the Lab-3 task, introduce an additional feature called *Exam_Type* (Regular/Supplementary) by generating values randomly. If *Exam_Type* is Regular, assign students a grade based on the grading scale; otherwise, assign only Pass or Fail status based on total marks. Use all available features, including this new feature, to train a machine learning model for predicting student performance. Analyze and report how the inclusion of the *Exam_Type* feature influences the model's behavior and prediction accuracy.