Project title	Predicting student Performance in advance
The idea of the project and the purpose of its build	The project that I intend to work on is to predict the students' academic performance by using the student's pre-admission data such as (high school scores, Achievement Admission test, and General Aptitude Test) The purpose of implementing this model is that universities in the current era have primarily turned into electronic systems. As a result, universities are producing student data daily for official purposes. However, the vast data produced daily can be used far beyond formal purposes, such as predicting whether a student will struggle or fail in their studies from an early age so that these educational institutions can help them.
Beneficiaries of the project	The first beneficiary is the low-performing students to raise their educational level and reduce the risk of their failure in the future. In addition, this model will benefit educational institutions as the number of students dropping out of these institutions will be reduced. Furthermore, the model will serve as a quick and helpful indicator for decision-makers in these educational institutions to identify these students early.
Dataset	In this project, I plan to benefit from open data at King Khalid University. https://data.kku.edu.sa/ar/open-data This is to fit the data with the desired goal of my project, as it contains pre-admission data for university students while maintaining the privacy of these students.
Implementation and tools	Initially, I intend to clean the available data and explore it further by Python by using what was previously studied in this course and identifying the essential features that I will work on. Then, I will define the meaning of academic performance based on the data I will work on. After that, I will split the data into training data and test data. Finally, I will apply several algorithms such as: (Decision Tree and Random Forest) to find out the best algorithm that predicts students' academic performance