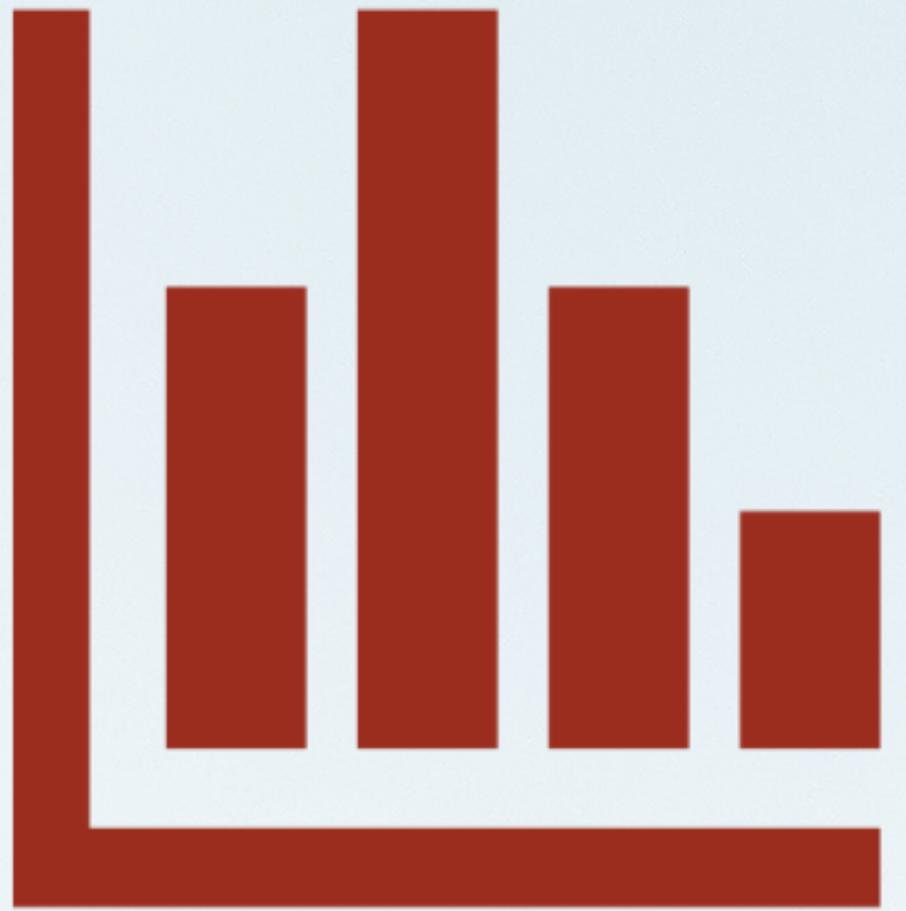
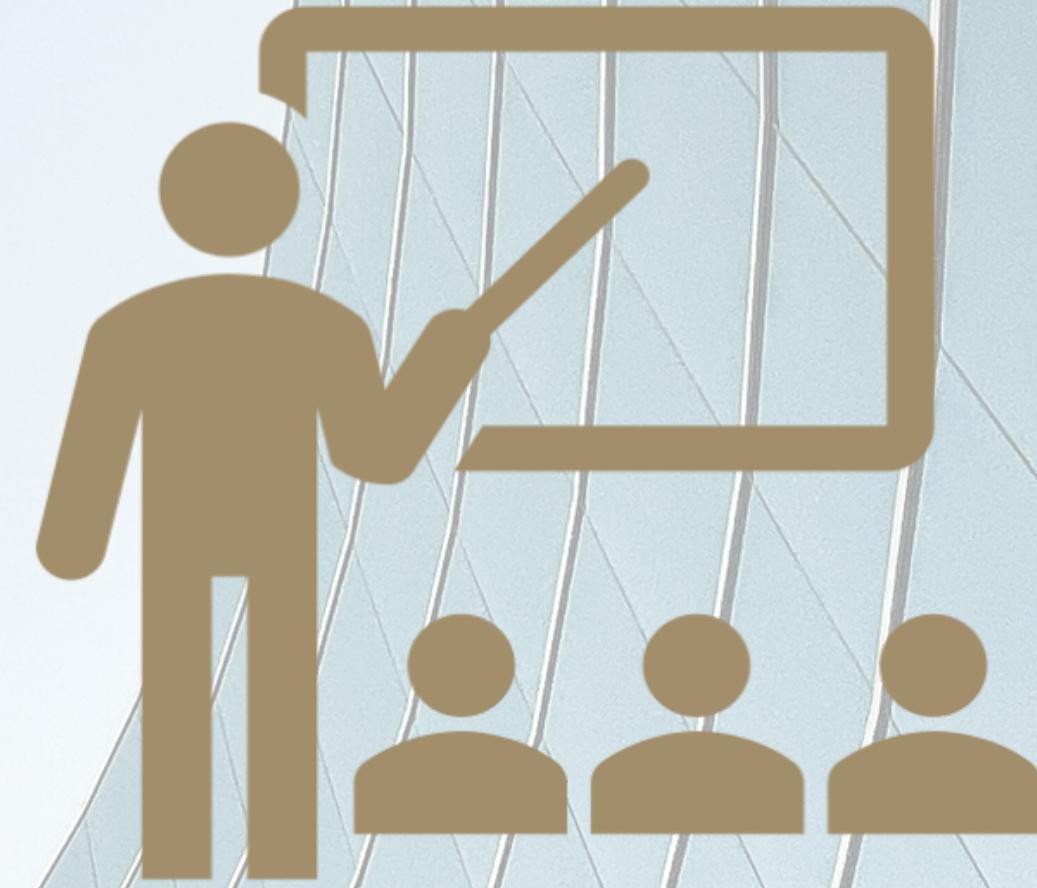


PREDICTING THE STUDENT DROP OUT RATE

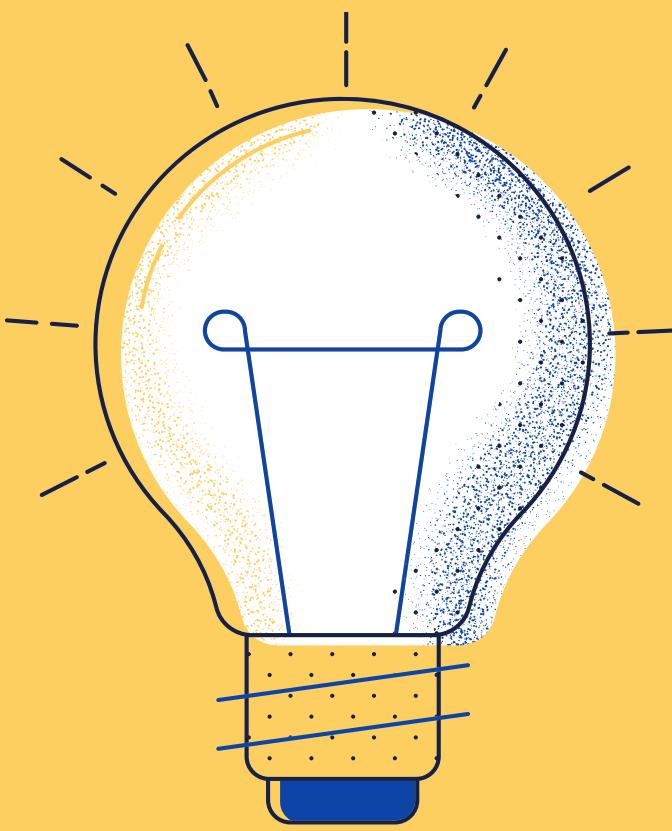




uses:^{*} By using this we can analyse the dropout rate of the students



* Helping the lecturers f
helping those students for care er
guidance



PYTHON PACKAGES THAT WE USED:

- numpy
- pandas
- matplotlib
- scikit-learn
- scipy
- seaborn

Main Reasons for the students to drop out from the college

- Financial reasons
- Academic inadequacy
- Picking the wrong course
- No Individual Attention or Guidance
- Life Situations
- Environment



Reason 1: Financial reasons

- * "can't afford the college fees"! This is the first reason why students drop out.
- * The skyrocketing fees increase student debts, pushing those from underprivileged backgrounds suffer further.
- * Around 50 percent of 2017-2018 young adults who couldn't afford college

Reason 2: Academic inadequacy

- * Off the big number of students who attempt four-year college study, only a twenty-five percent have met the ACT readiness benchmarks on all the four subjects.
- * When a higher education lack this, there is a dip in the student's performance, which becomes a major reason for student pull out

Reason 3: Picking the wrong course

- * It is unbelievable, but the truth is around 80% of college students get confused about changing their major at least once by the end of their study.
- * It is unfair to commit to a course of study only to discover later that the program is not what they expected.
- * Course evaluation done at the early stages can become a right mentor here, where students are exposed to pick courses after much thought, by their own.

Reason 4: No Individual Attention or Guidance

- * At college, especially in the first year, guidance and individual attention from a counselor or mentor may not exist in the student's life.

Reason 5: Life Situations

- * Illness or illness of a family member, financial limitations can all contribute to why a student may be forced to relinquish his or her college education for the time being.
- * Unfortunately, as life may dictate, there are unexpected life situations that can lead to students dropping out of college or university, which can be of a serious nature. The student is forced to come home.

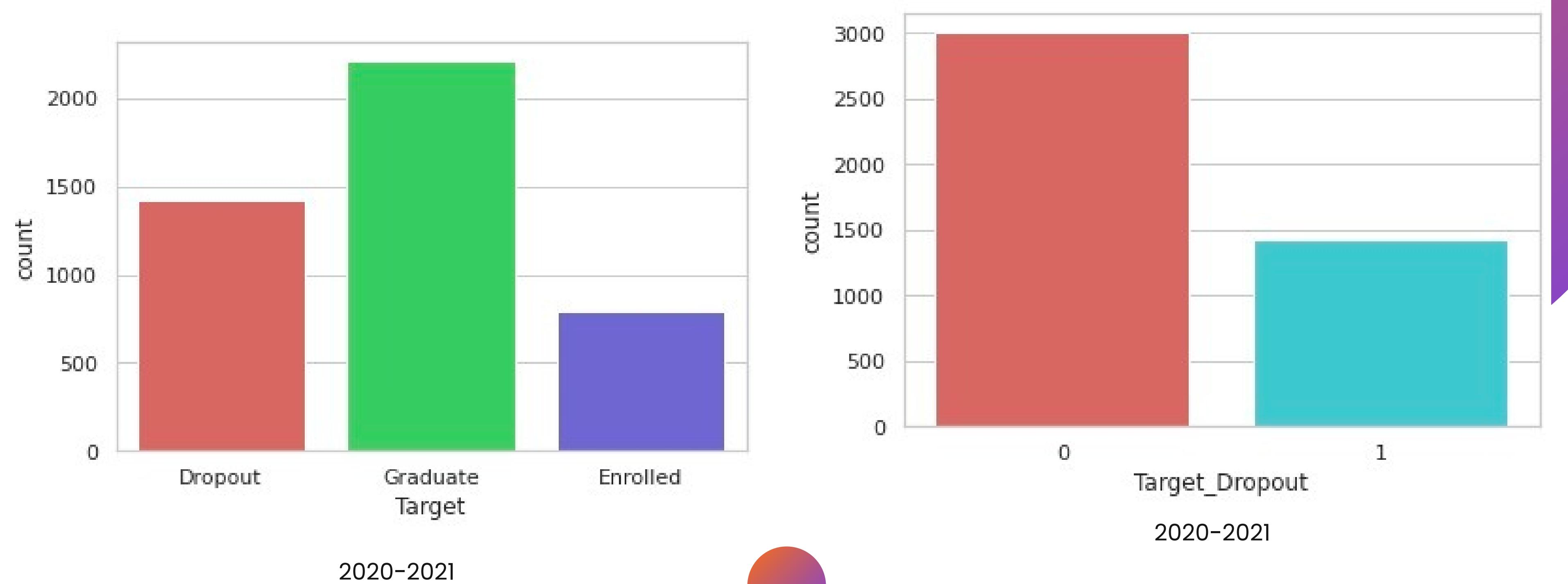
Reason 6: Environment

- * Lack of student engagement is the main reason. When a student feels less engaged and lonely, he/she is definitely turned down.
- * Internal would include a less motivational learning environment, whereas external would be lack of peer collaboration online, fear of isolation and the absence of social cues.



TECHNIQUES/ALGORITHMS WE USED:

- LINEAR REGRESSION
- LOGISTIC REGRESSION
- DECISION TREE
- NAIVE BAYES



DROPOUT STATISTICS :

CSV FILES WE USED:

[https://www.kaggle.com/datasets/
spscientist/students-
performance-in-exams](https://www.kaggle.com/datasets/spscientist/students-performance-in-exams)

[https://www.kaggle.com/datasets/
aljarah/xAPI-Edu-Data](https://www.kaggle.com/datasets/aljarah/xAPI-Edu-Data)

GITHUB LINK:

<https://github.com/srikanth-kandi/ADS-Hackathon>





Thank You

