Minimizing Academic Failure in Higher Education

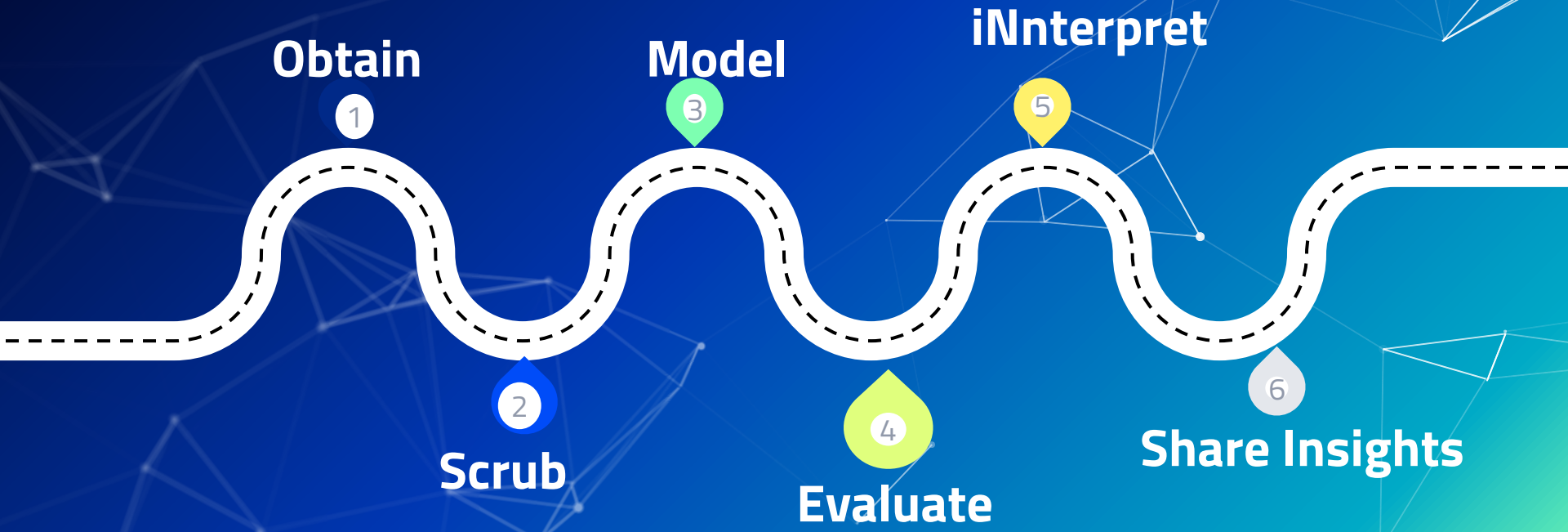
Crafting a Reliable Model for Early Intervention

Goal: Use Machine Learning to Identify At-Risk Students Early

"63.2% of US undergraduates complete their degrees within 6 years...

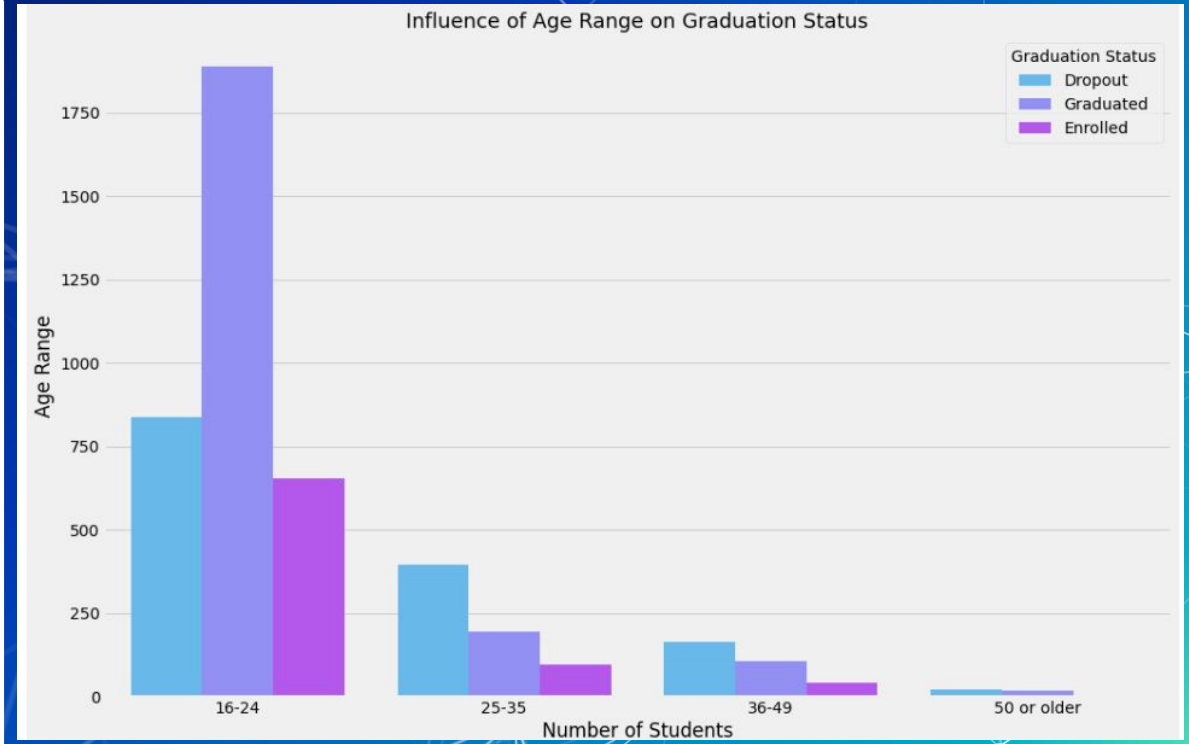
- Hanneh Bareham and Chelsea Wing (bankrate.com)

Method


Obtain
1
Scrub
2
Model
3
Evaluate
4
iNnterpret
5
Share Insights
6

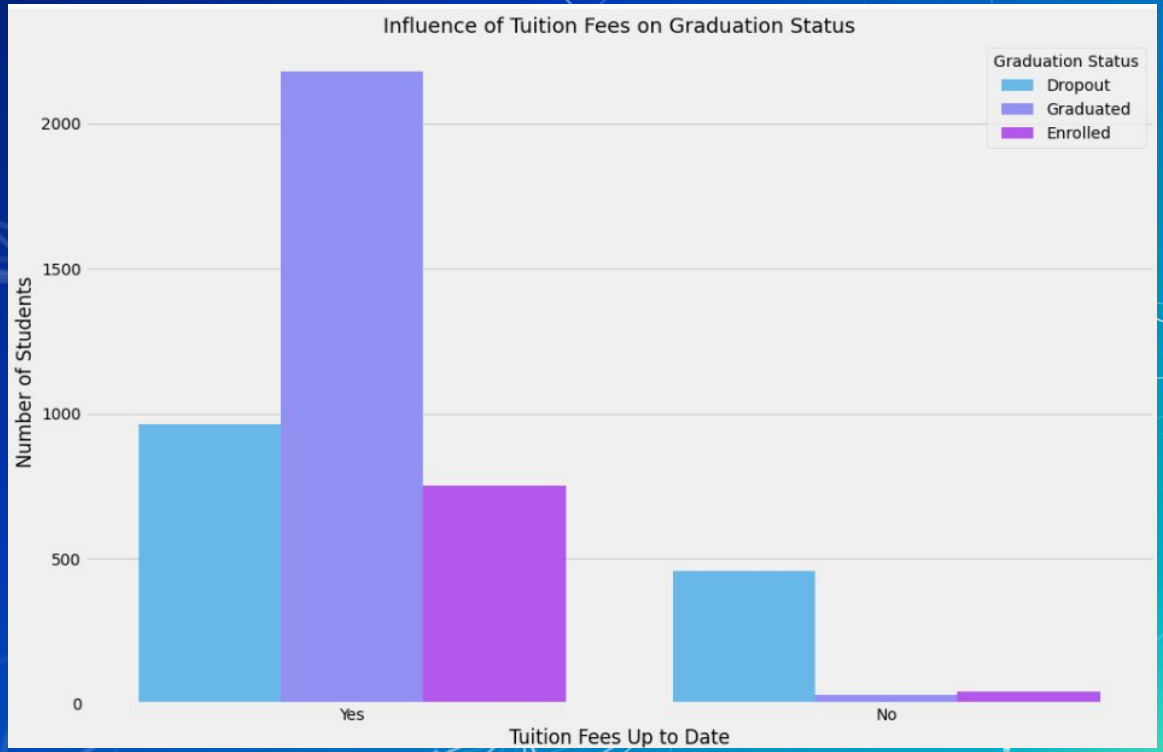
Age

- 25-35 age group excel
- 36+ age groups face higher dropout and lower graduation rates



Tuition Fees

Students with pending fees have higher failure rates.

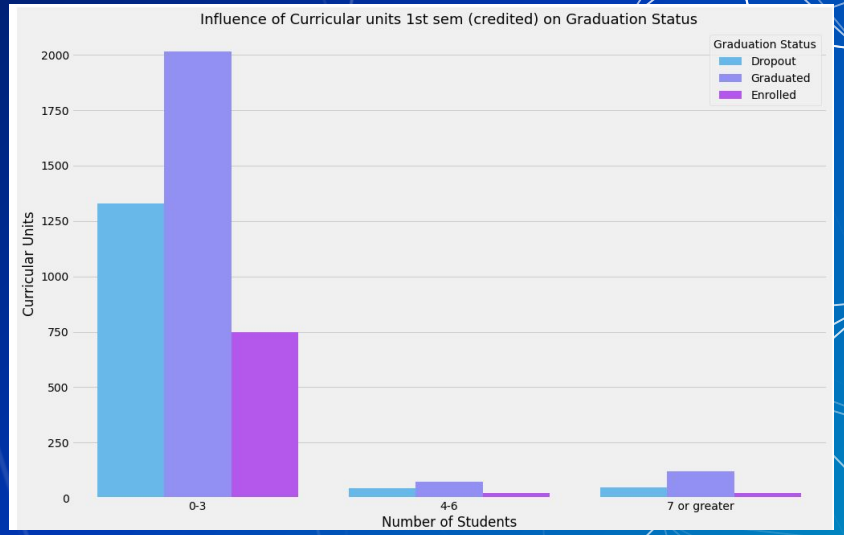


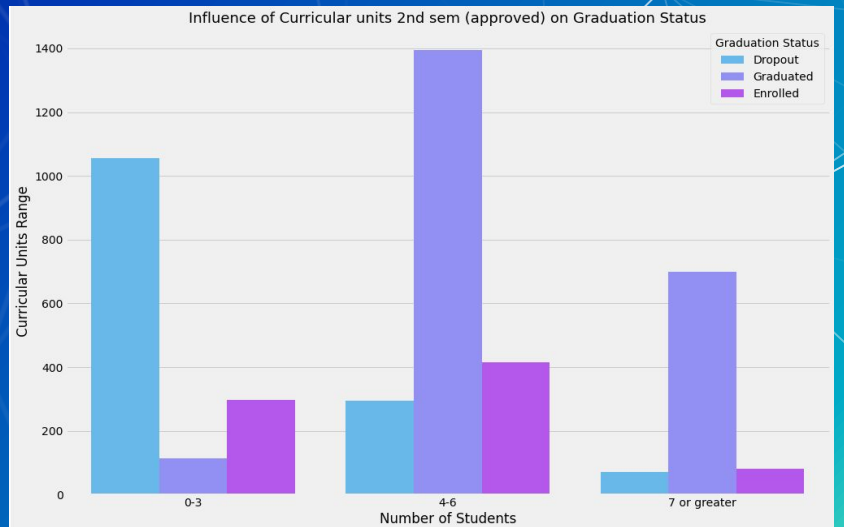
Curricular Units

Higher 1st and 2nd semester units

=

greater chance of academic success.





Recommendations

Monitor Tuition Payment$
Make payment plans accessible to every student

Make early enrollment easy
And a lot of ways to enroll quicker, faster, easier

Provide academic support to older students > 24
Total success!

THANK YOU!

Any questions?

You can find me at

- Repo at: https://github.com/dataeducator/student_academic_success/
- tenicka.norwood@gmail.com
- Presentation template by SlidesCarnival
- Photographs by Unsplash