

# Minimizing Academic Failure in Higher Education

The background of the slide is a deep blue gradient that transitions to a lighter blue and greenish hue towards the bottom right. Overlaid on this background is a complex network of thin white lines connecting small white dots, creating a geometric, crystalline, or molecular structure that resembles a low-poly mesh or a network diagram.

The background of the slide features a person wearing a VR headset, with a blue-tinted image. Overlaid on this is a white geometric network of lines and dots, resembling a neural network or data connections. The text is centered and in a bold, white, sans-serif font.

# **Crafting a Reliable Model for Early Intervention**

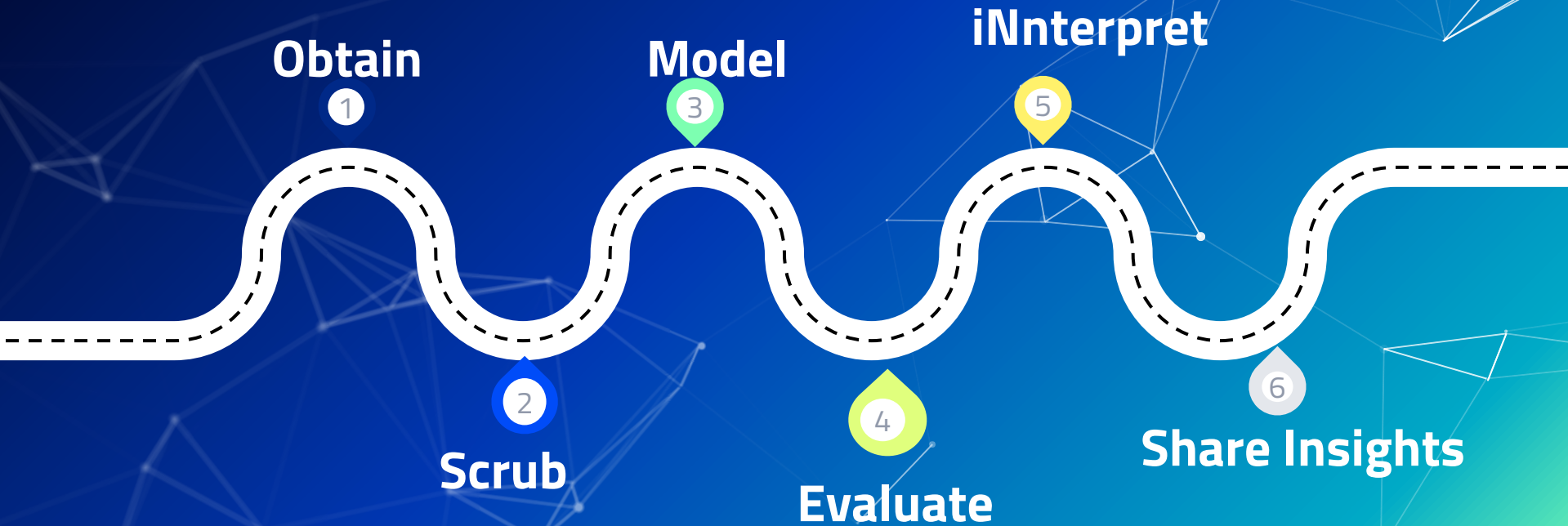
**Goal: Use Machine Learning to Identify At-Risk Students Early**



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

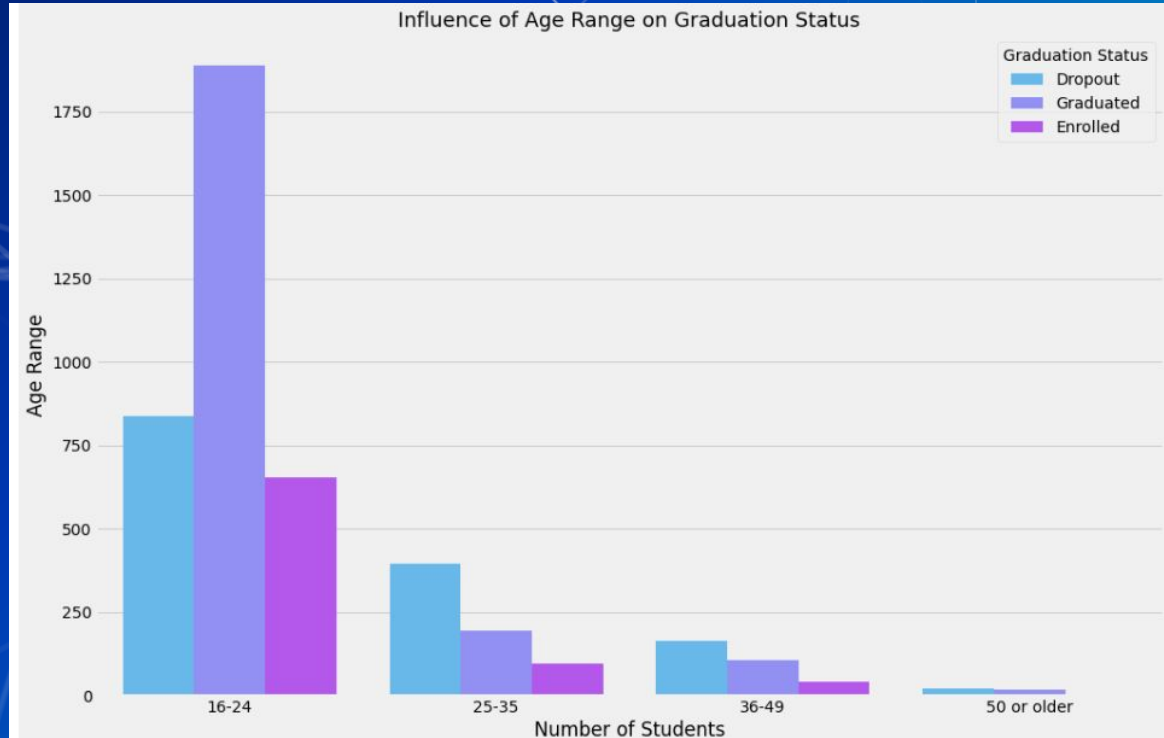
**- Hanneh Bareham and Chelsea Wing  
([bankrate.com](http://bankrate.com))**

# Method



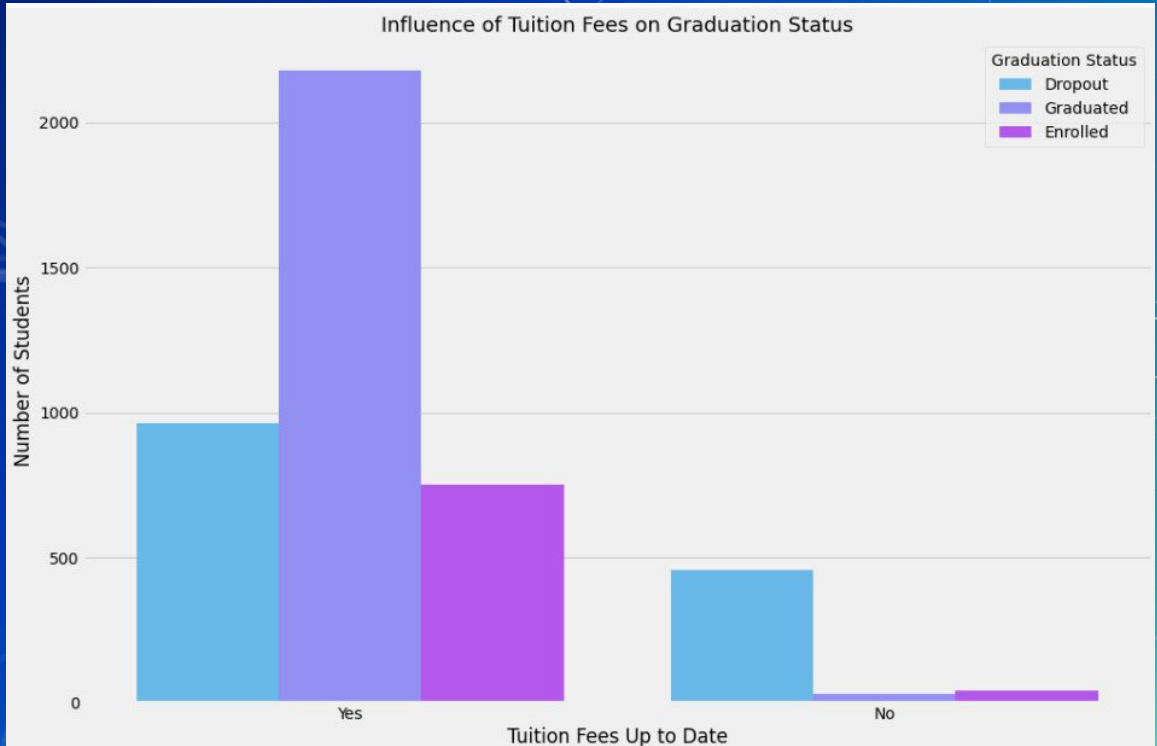
# Age

- 16-24 age group excel
- 36+ age groups face higher dropout and lower graduation rates



# Tuition Fees

Students with pending fees have higher failure rates.



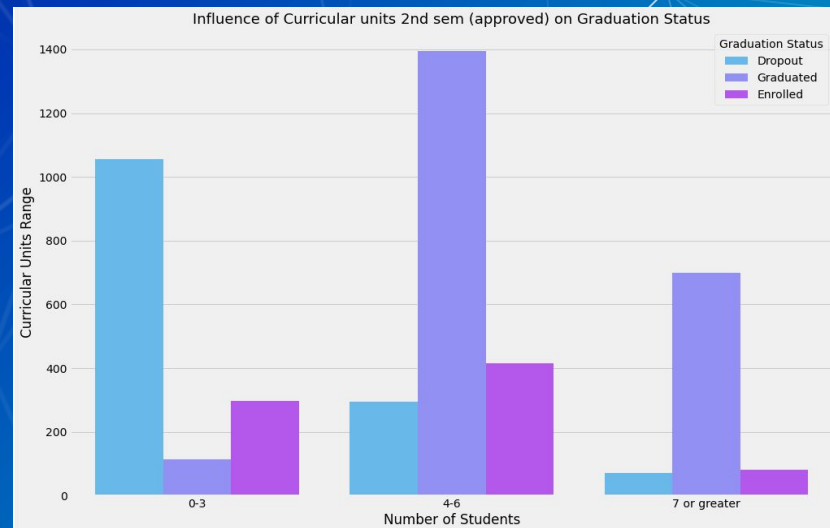
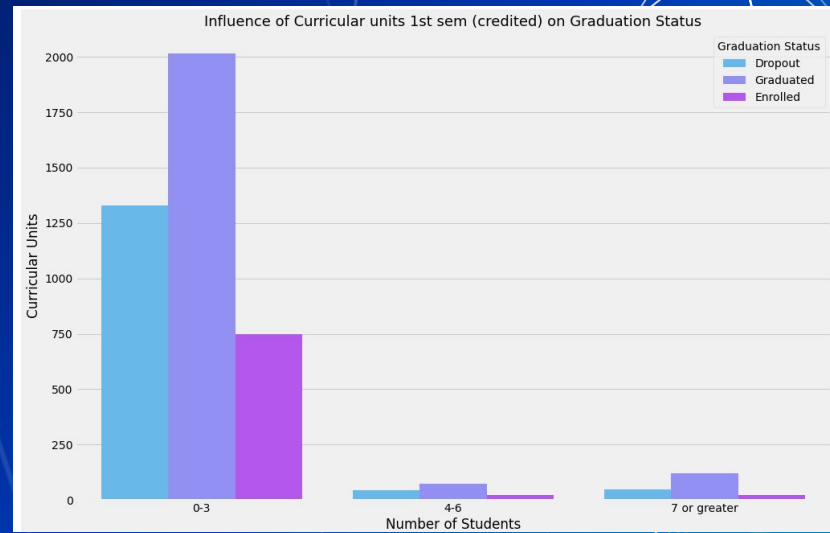


# Curricular Units

Higher 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/](https://github.com/dataeducator/student_academic_success/)
- [tenicka.norwood@gmail.com](mailto:tenicka.norwood@gmail.com)
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