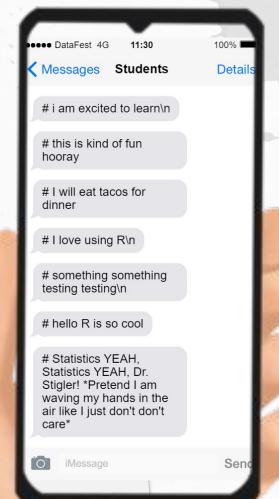
A+

(Average) Statistics

A presentation by Hannah Steinberg, Martin Ledesma, Mingchen Wang, Qian-Hui Yu





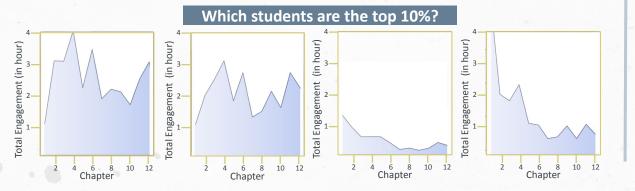
Modeling	
Classification Model	Accuracy
XGBoost	0.73
Random Forest	0.72
KNN	0.65

Top Predictors:

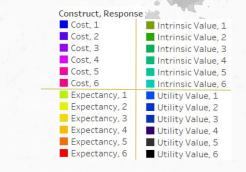
- Total engagement time
- Cost
- Completion Rate
- Expectancy
- Other constructs...

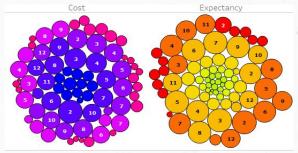
Points to Consider...

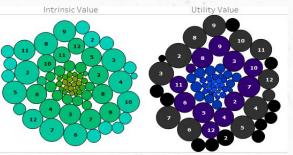
- Linear regression displayed high correlation between variables.
 - Engagement vsConstructs (VIF = 6~11)
- The Accuracy of the Models significantly improved (0.60 -> 0.70) after the 4 construct scores are added.



Construct Overview



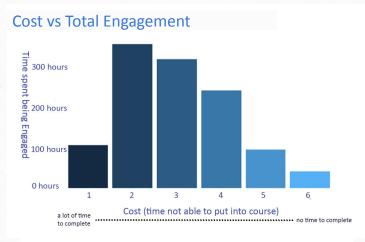




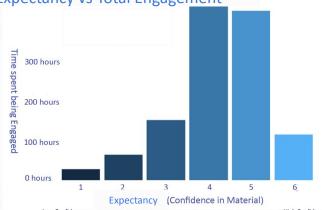


Improvement

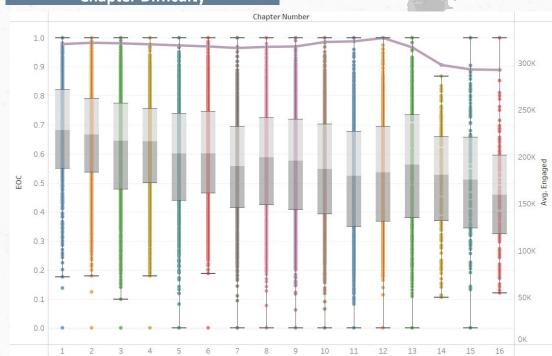












Conclusion:

- Students learn better when they are more Engaged
- A little pressure is good...

Suggestions:

External Data

- Gamifying Data can **enhance learning** and boost **confidence**
- <u>learning-progress component</u> drives student.