



AGENDA



1 Business Problem

O2 Data & Methods

Results

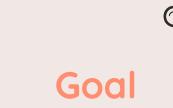
Conclusions





Business Problem

- STEM jobs are growing each year and most require a college degree
- U.S Dept of Ed invested \$578 million in STEM education in 2020 to meet the needs



 Determine factors that most impact a student's decision to major in STEM



DATA





Source

2009 High School Longitudinal Survey from National Center for Education Statistics



- 23,000 High School Students
- 944 High Schools
- 2012 Follow Up Survey











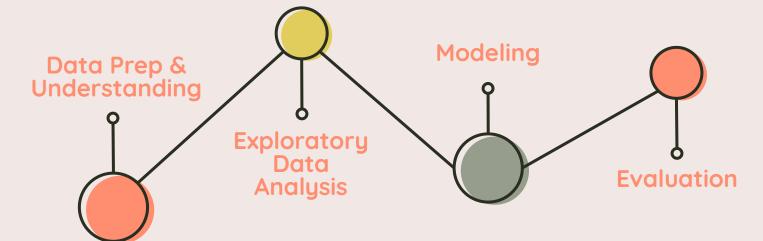






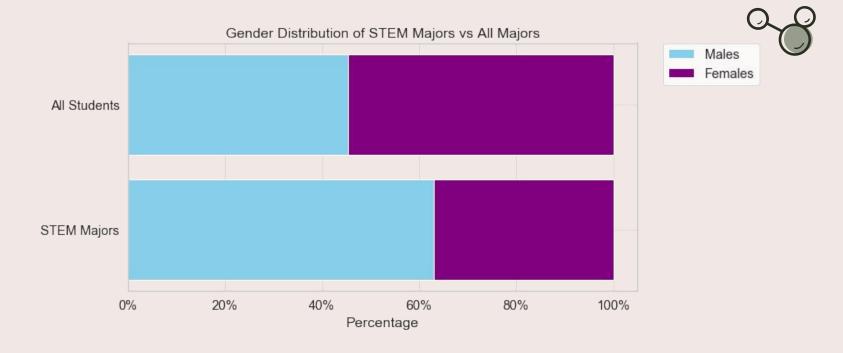
METHODS



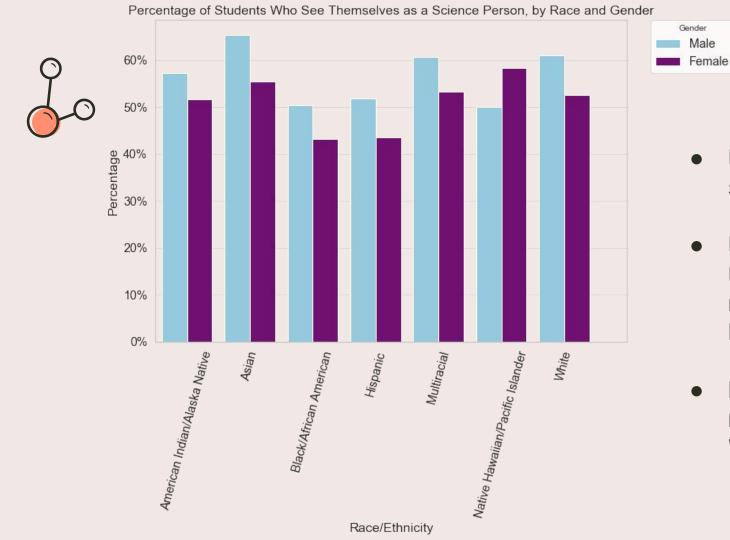






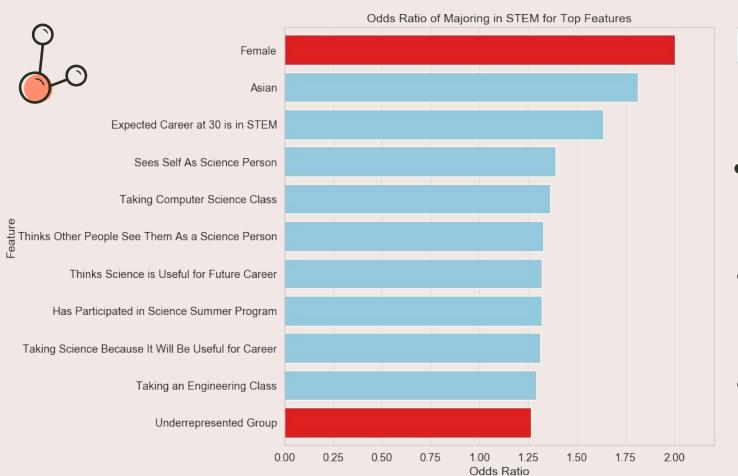


Female students are underrepresented in STEM majors



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- Lower for female students, overall
- Lowest for Black/African
 American and Hispanic students
- Highest for Asian Multiracial, and White males

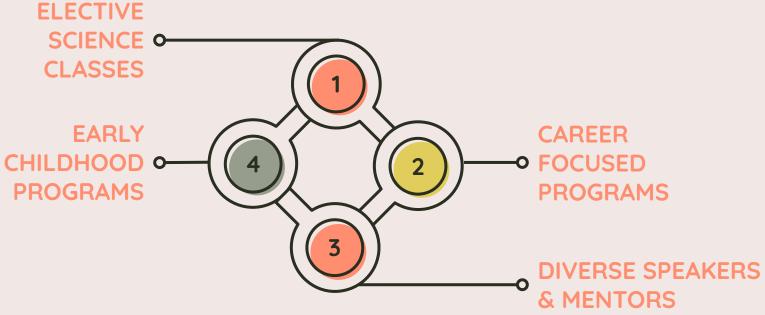




- Tuned Logistic Regression model
- Importance of science identity
- Importance of future career

CONCLUSIONS / RECOMMENDATIONS

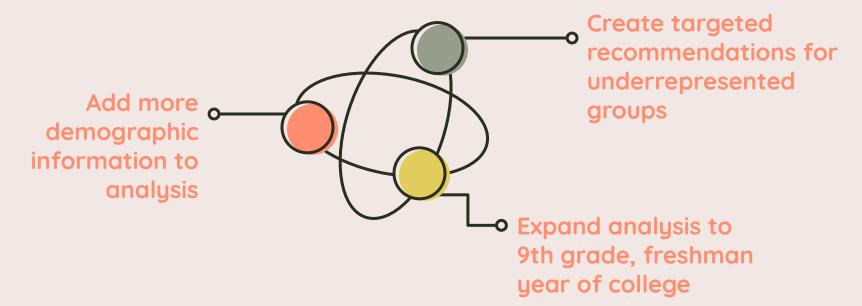






NEXT STEPS









Questions?

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