



AGENDA



1 Business Problem

O 2 Data & Methods

03 Results



O4 Conclusions



Business Problem

- STEM jobs growing each year, most require a college degree
- U.S. Dept of Ed investing in STEM education





 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
- 2012 Follow Up Survey



DATA



Example Features



Attitudes Toward Science

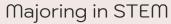


Science Classes



Perception of Science Teacher





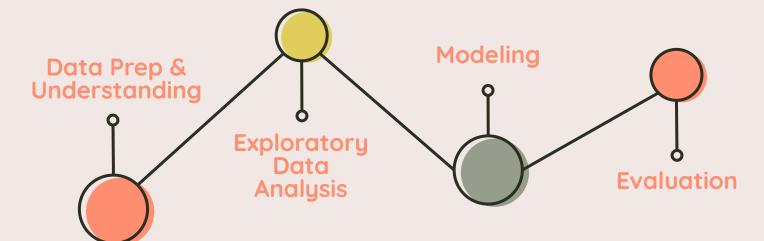


Anticipated Success in Science

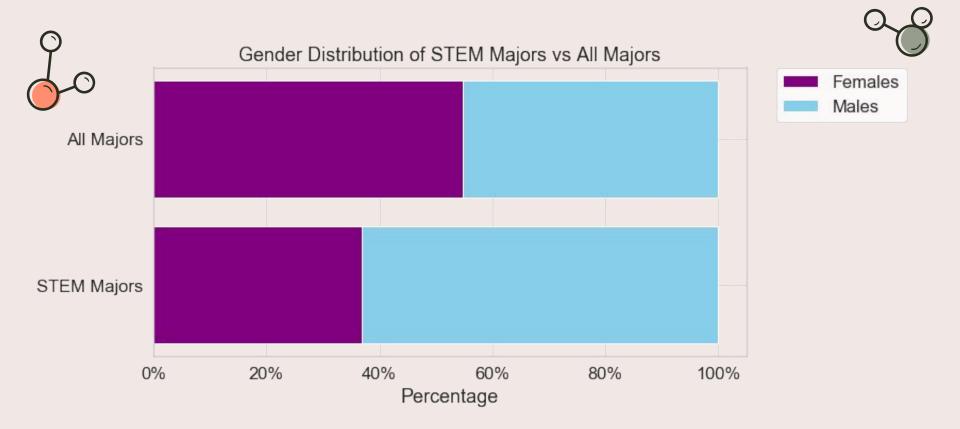


METHODS

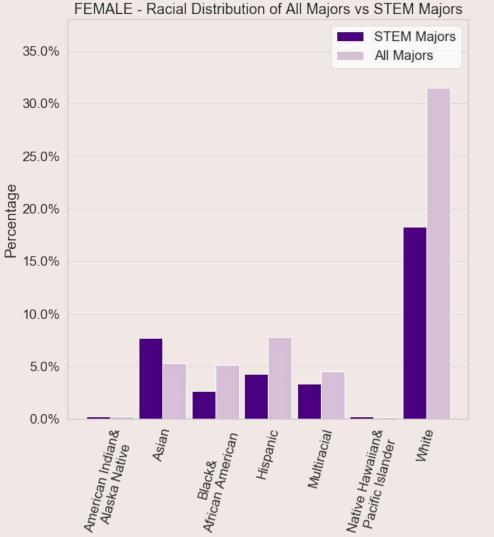






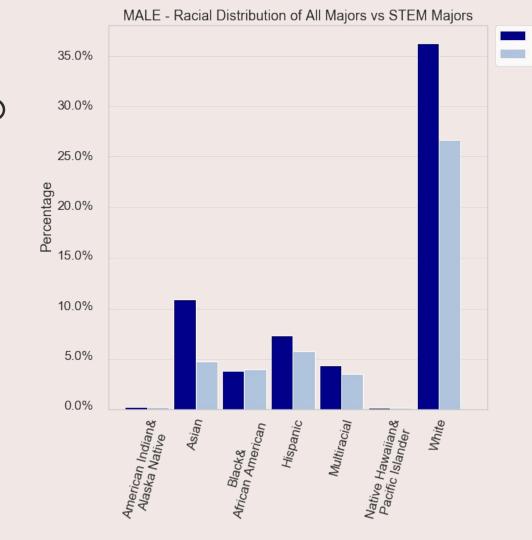


Female students are underrepresented in STEM majors



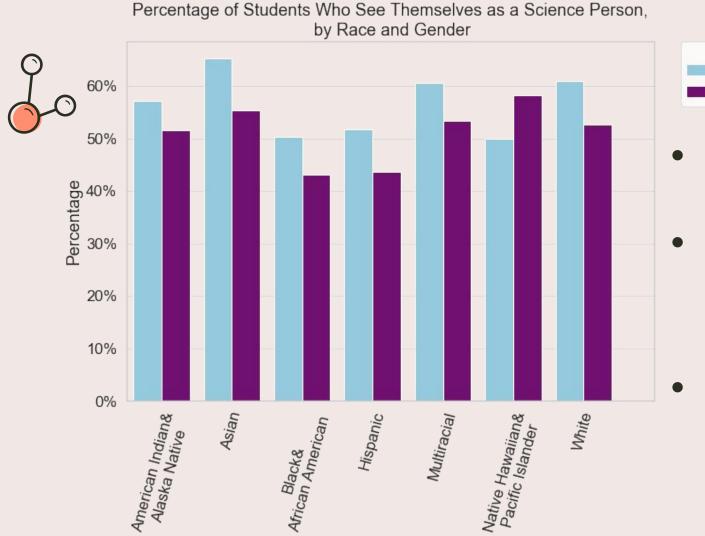


- Female students underrepresented across most races
- Black/African
 American, Hispanic,
 and White female
 students most
 underrepresented





- Male students overrepresented, especially White and Asian male students
- Underrepresentation of Black/African American male students



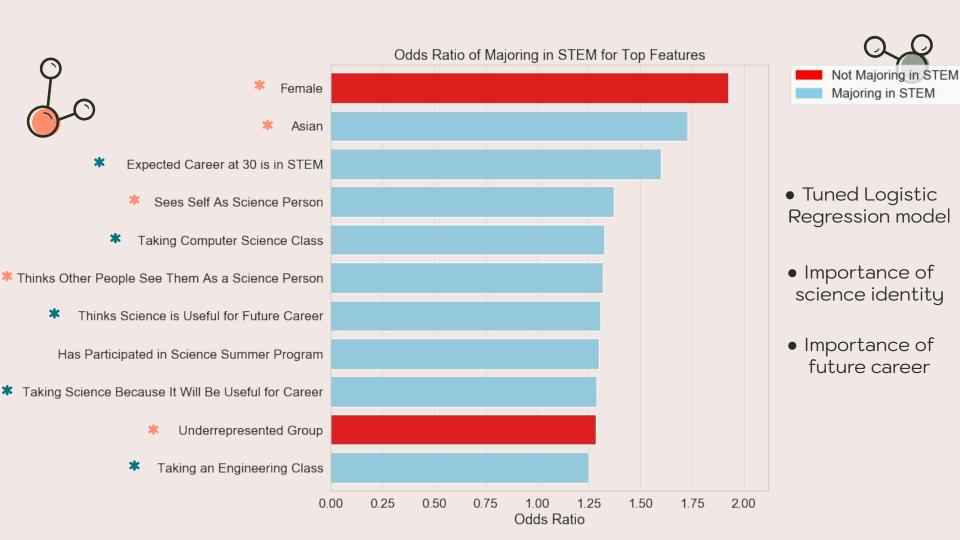


Lower for female students, overall

Gender Male

Female

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



CONCLUSIONS / RECOMMENDATIONS



01 Elective Science Classes

Career-Focused Programs & Curricula

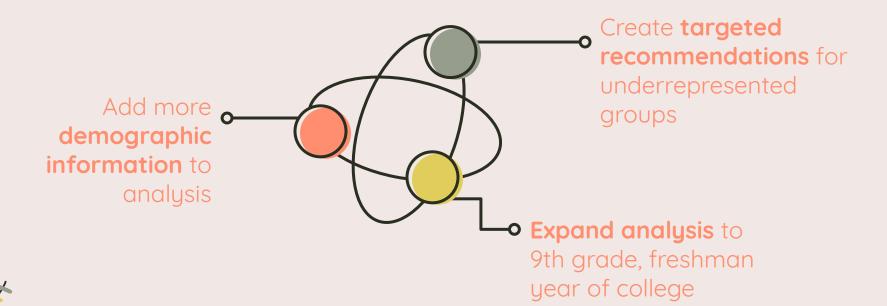
Diverse Speakers & Mentorship
Programs

Early Childhood Programs



NEXT STEPS







Questions?

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