



Gabriela Caballero

Kunyang Que

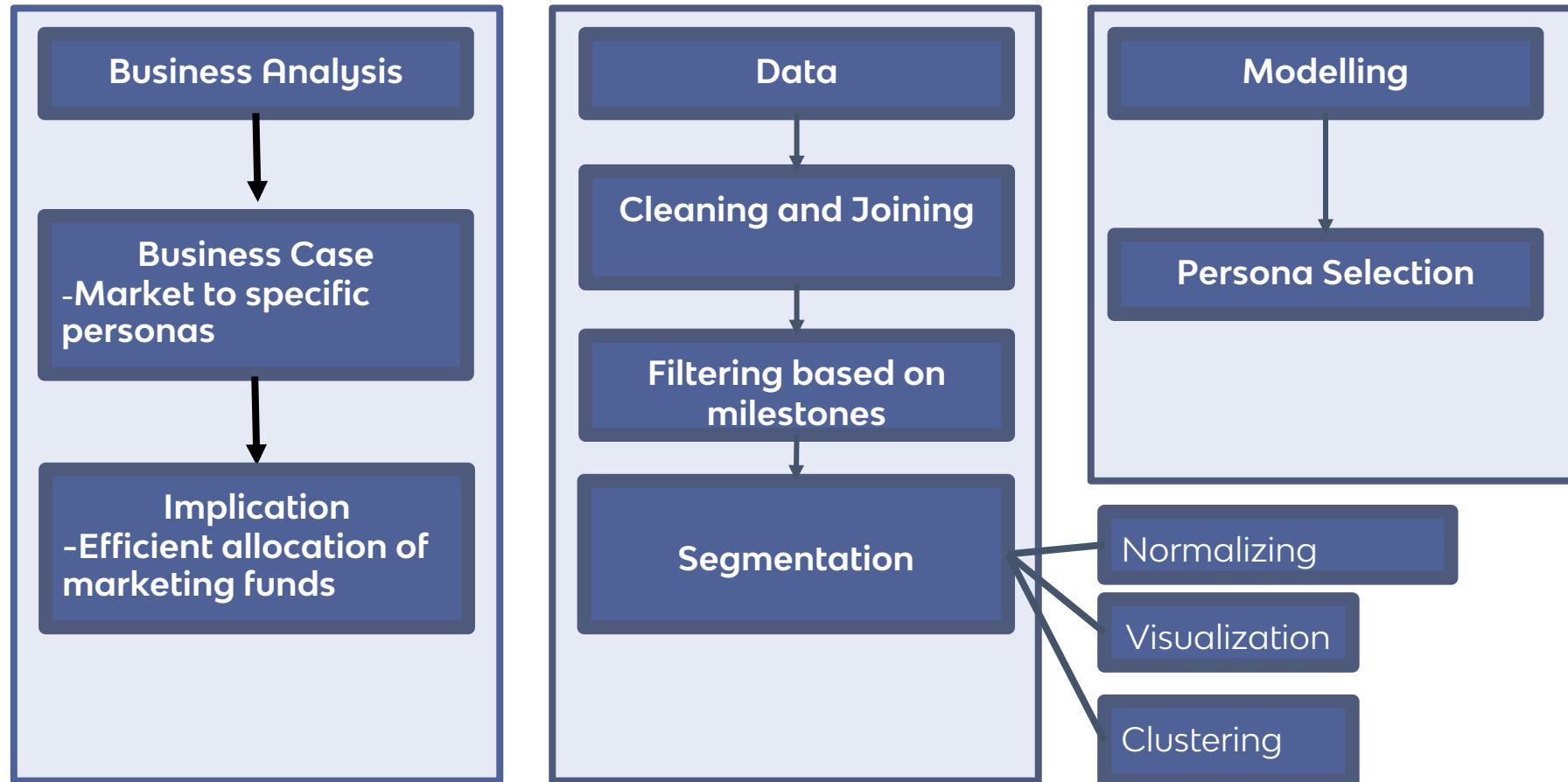
Ullas Srivastava

Yangxin Liu

Business Objectives

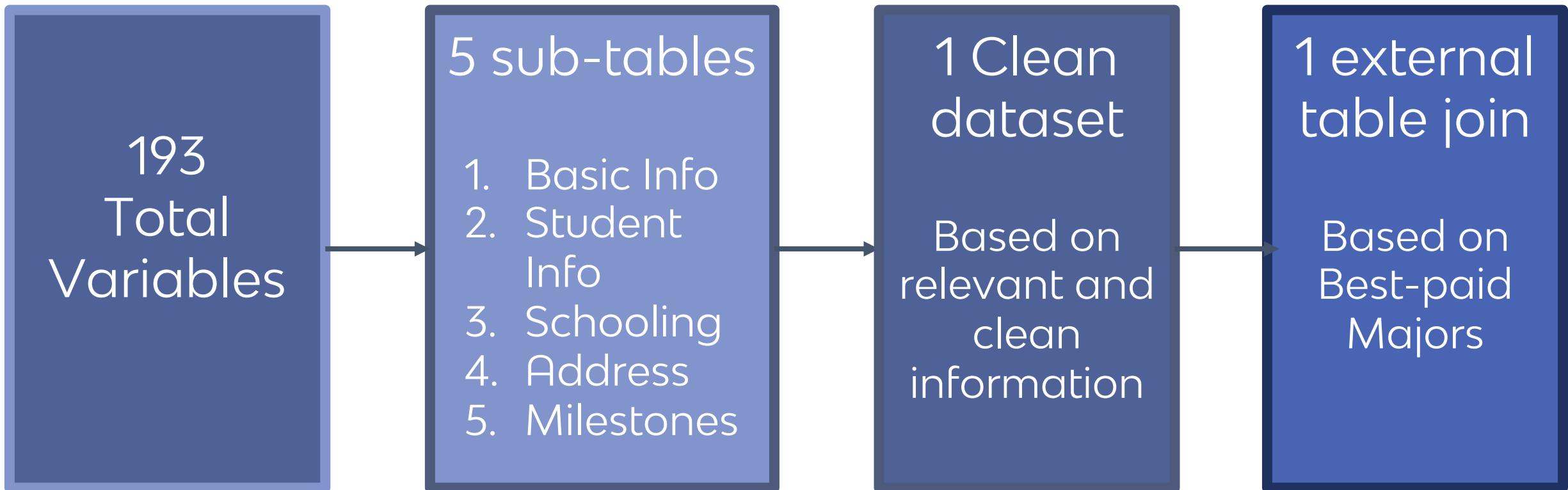


The Process



Data Cleaning

- Divided the big dataset in batches after cleaning out the missing data and outliers
- Did the analysis on each batch to find the most relevant fields and merged the batches to form a cleaner and larger dataset



Applicants Distribution Overview



Map drawn using OpenStreetMap library

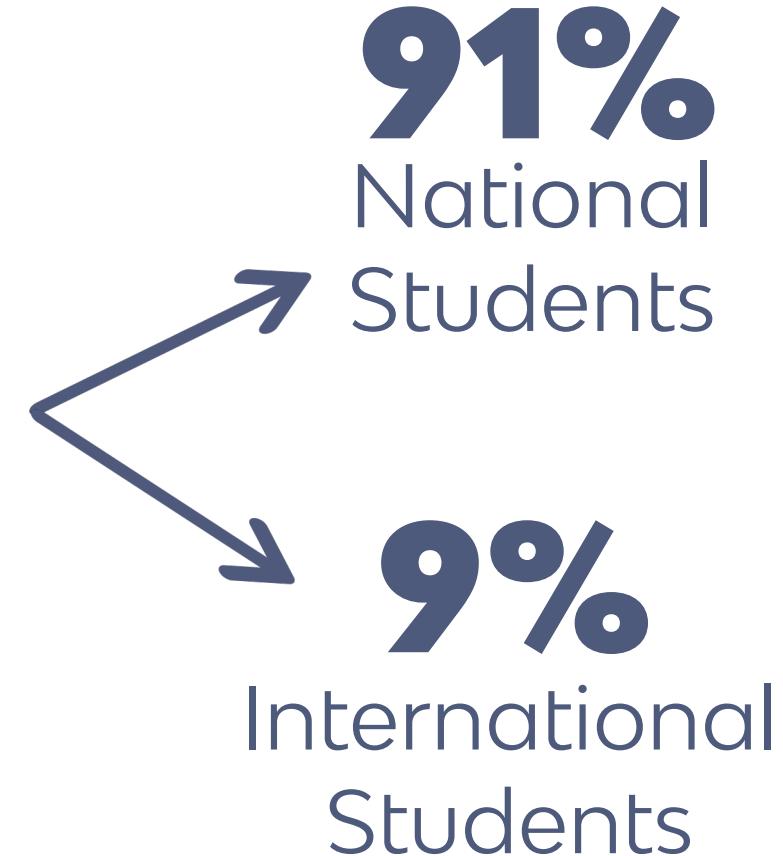


International vs. National Students

409447 → 5534

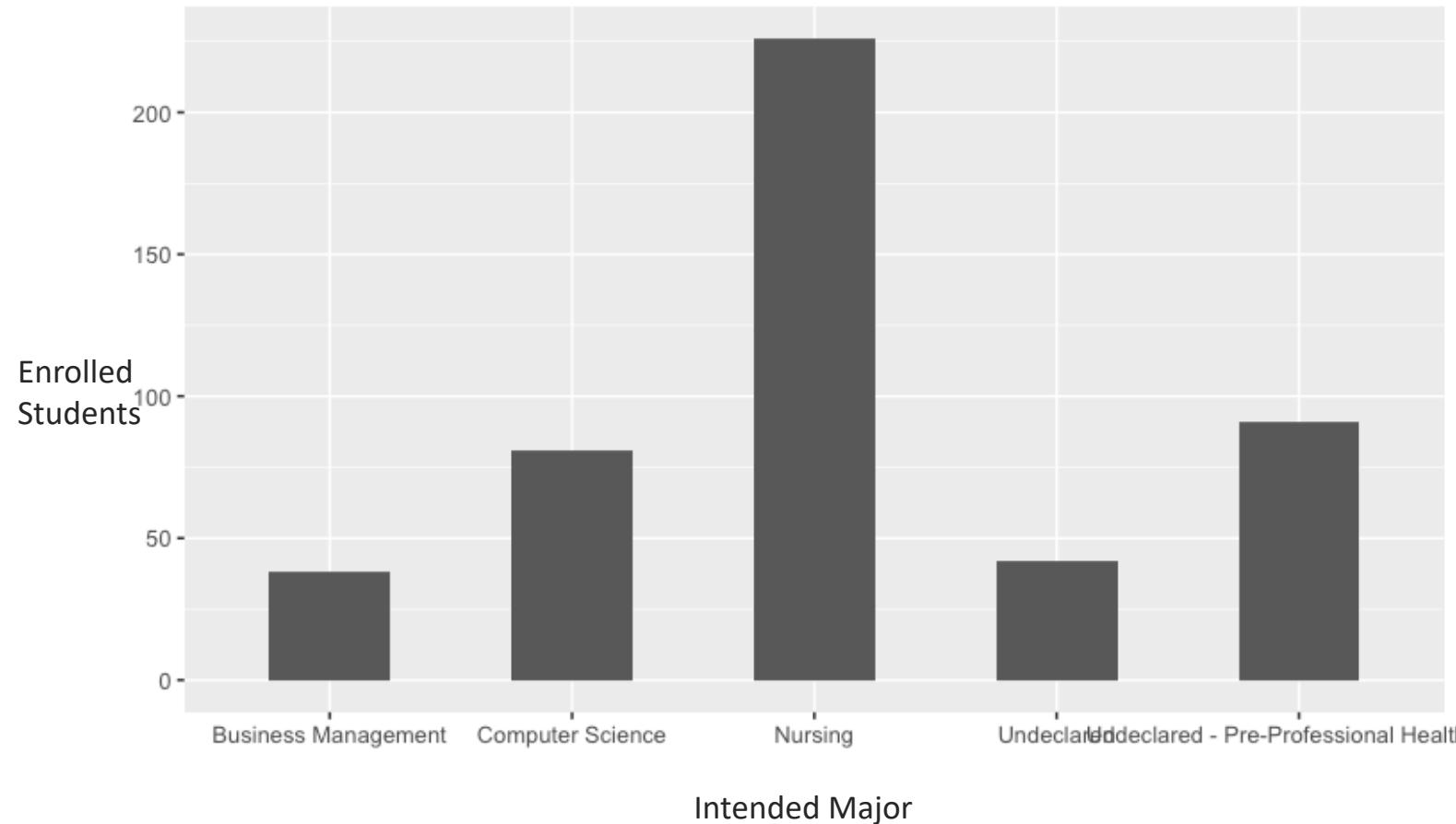
Applicants

Enrolled
students



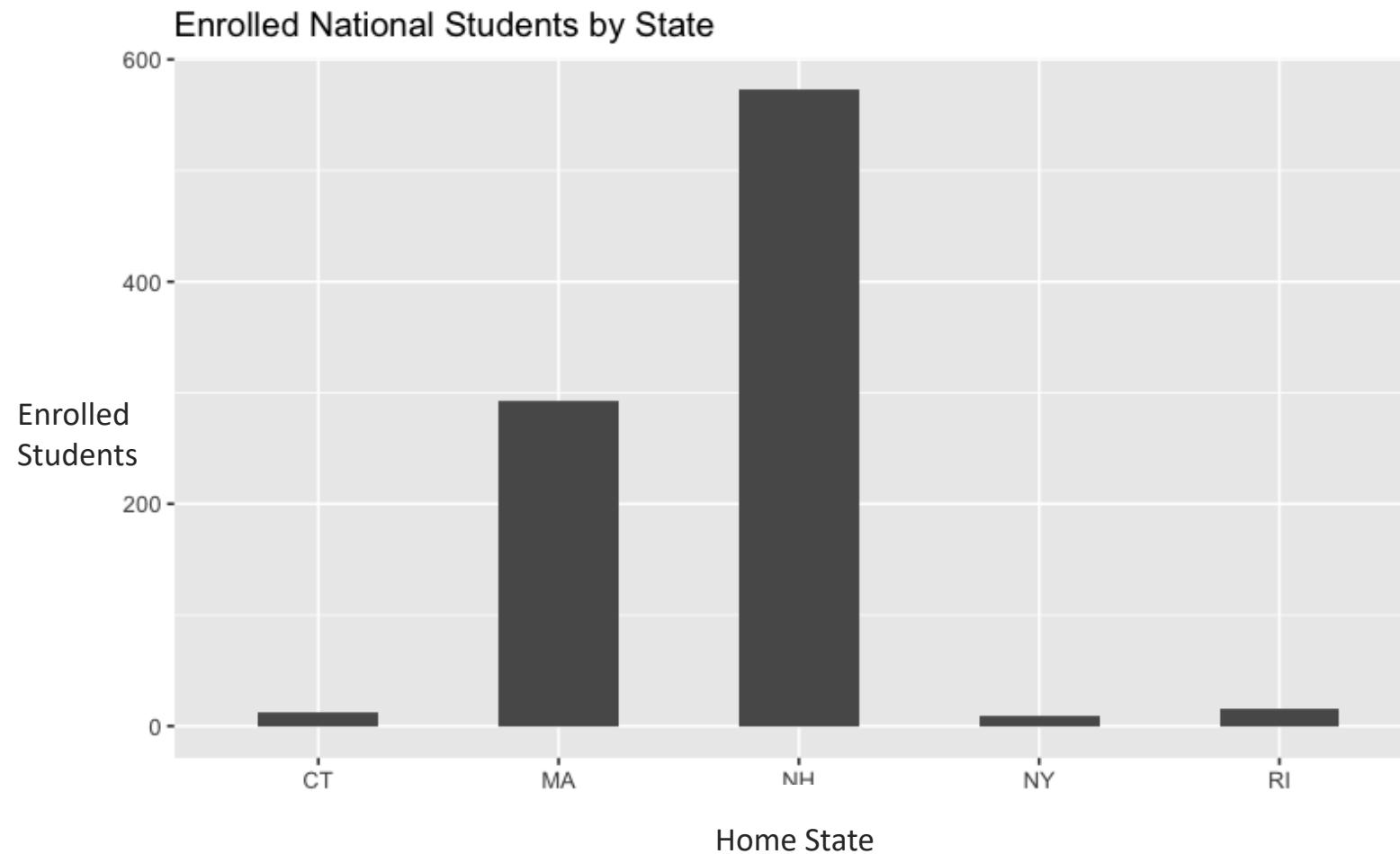
National Students

Enrolled National Students by Major



Nursing
Most Popular Major
among National Students

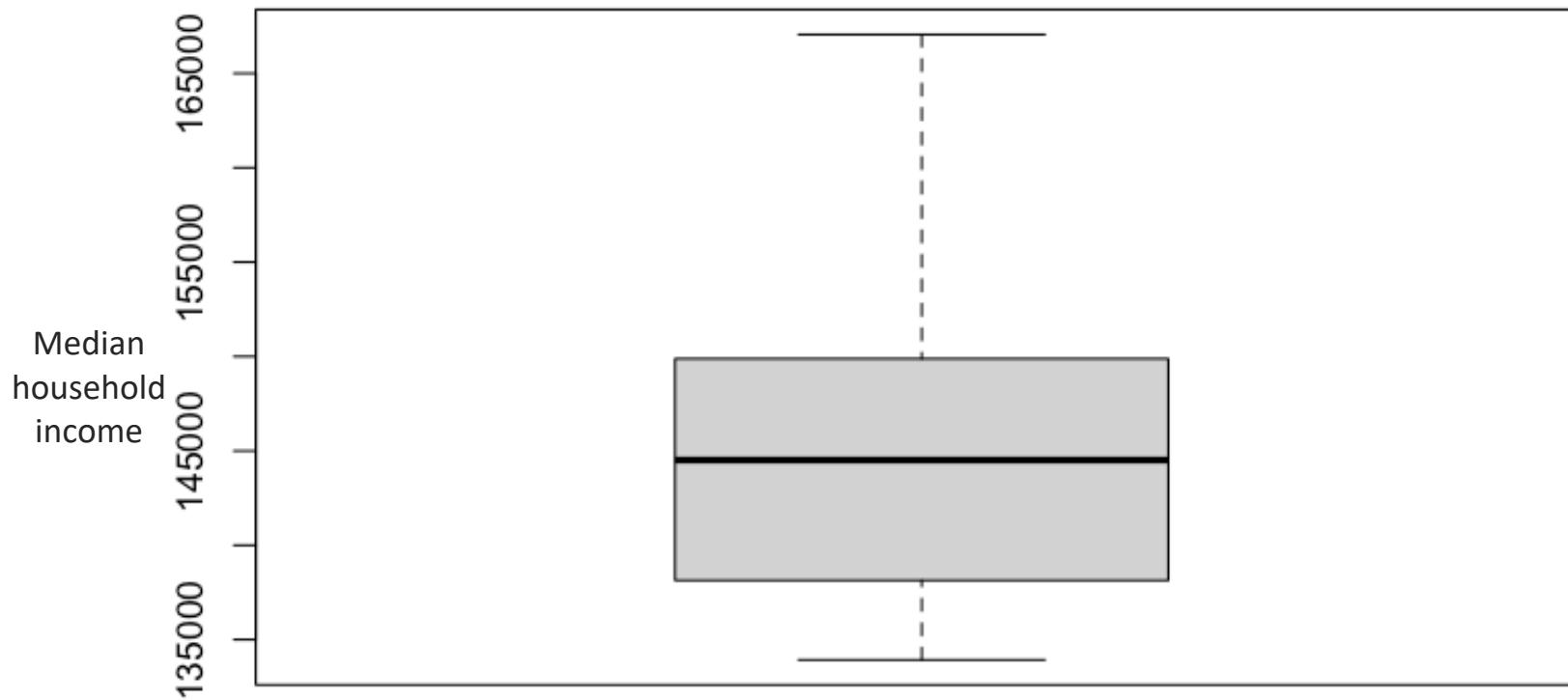
National Students



New Hampshire

Most national enrolled students are in-state student

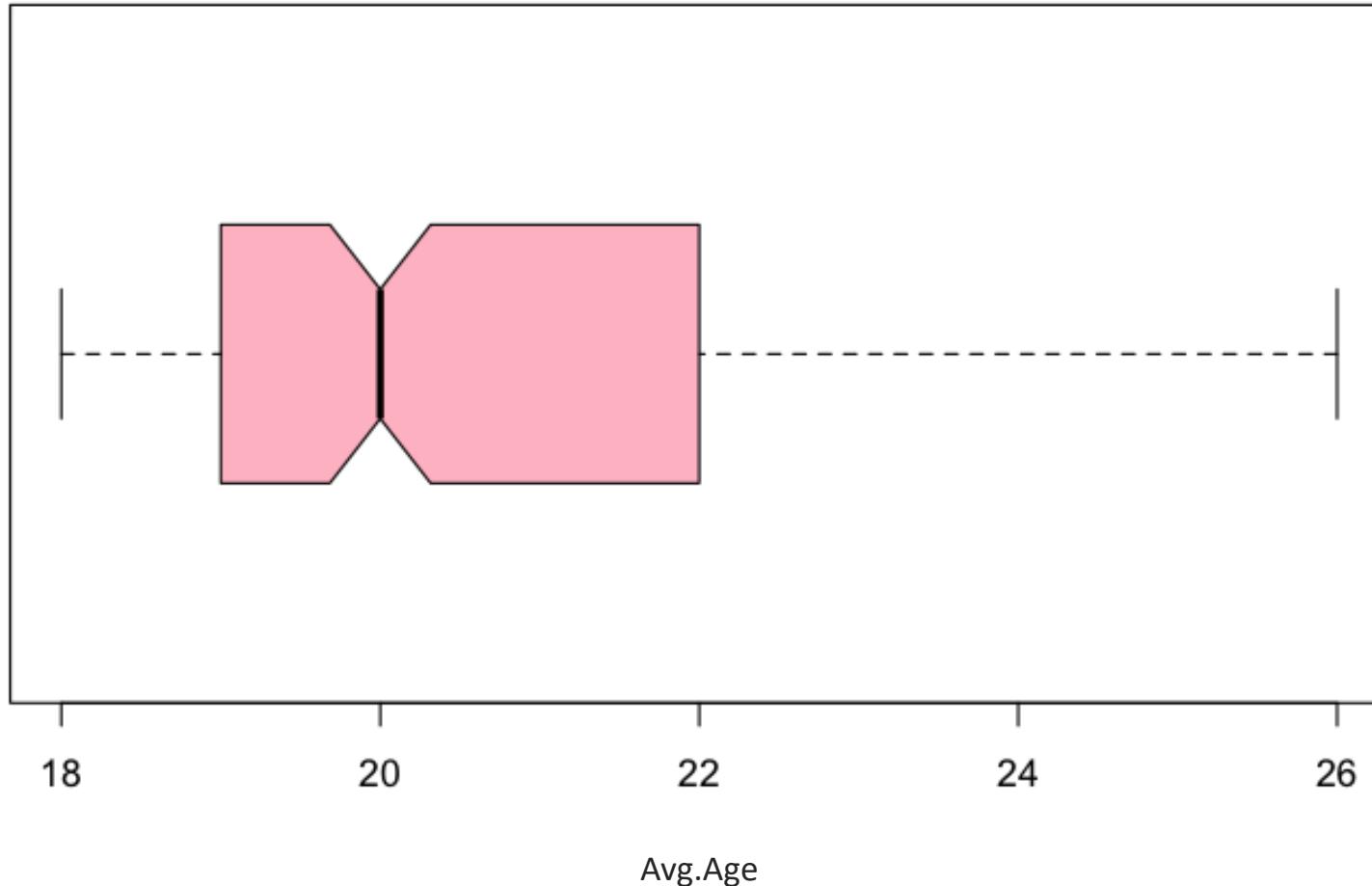
National Students



\$ **\$145,973**

Avg. median household
income removing those
that were more than 1sd
from the mean

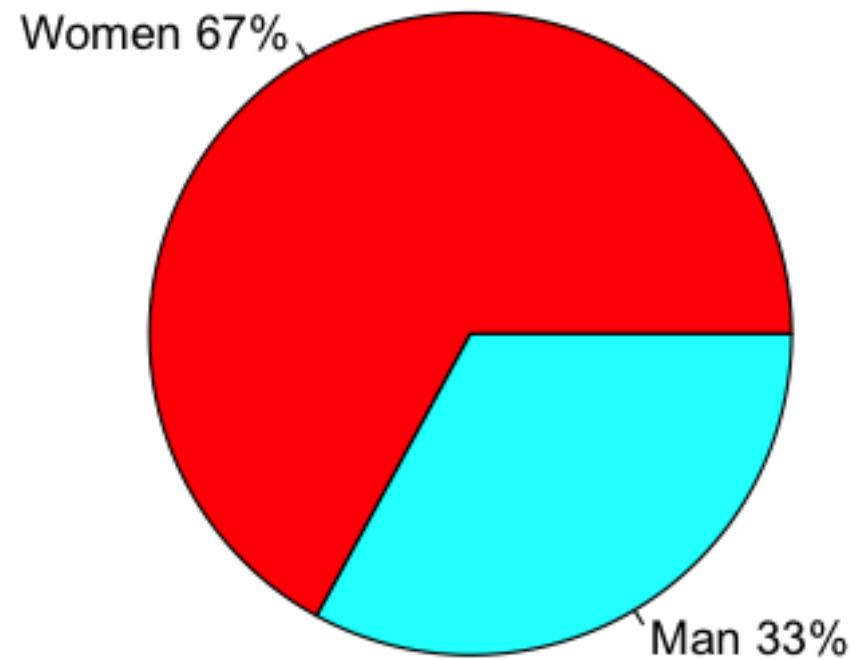
National Students

 20

Avg. age removing outliers

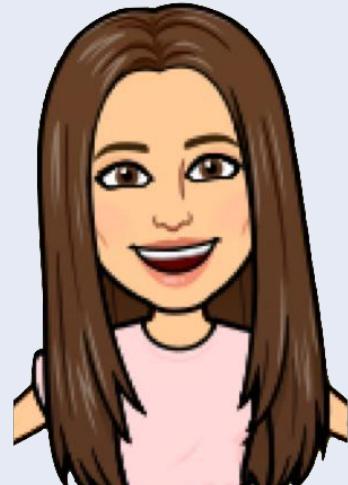
National Students

Female vs. Male National Students



Persona 1

Rachel



National Student

From New Hampshire

20 years-old

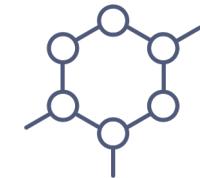
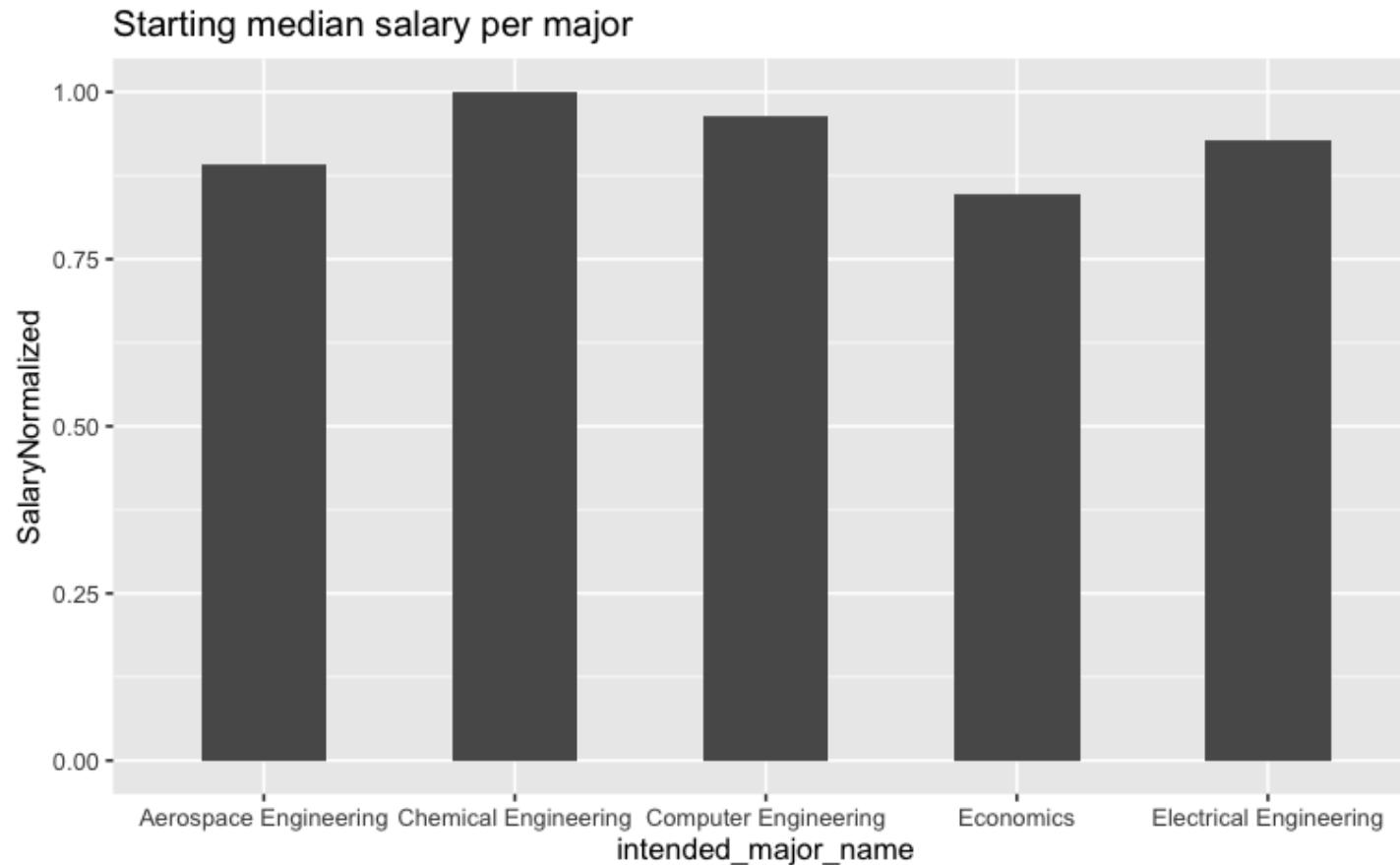
Wants to pursue a degree in Nursing

Median income:
\$145,973

Female

Marketing strategy: No need to invest in advertisement for her since she represents most of our applicants that end up being enrolled.

Best-Paid Majors-external data



Chemical Engineering

Major with the highest
Median Mid-Career
Salary

Best-Paid Majors and National Students



\$102,920

Mean median mid-career
Salary

\$52,000

Median mid-career salary
for education majors



Education

Least Popular Major
among National Students

Persona 2

Monica



National Student

From New Hampshire

20 years-old

Wants to pursue a degree in Education

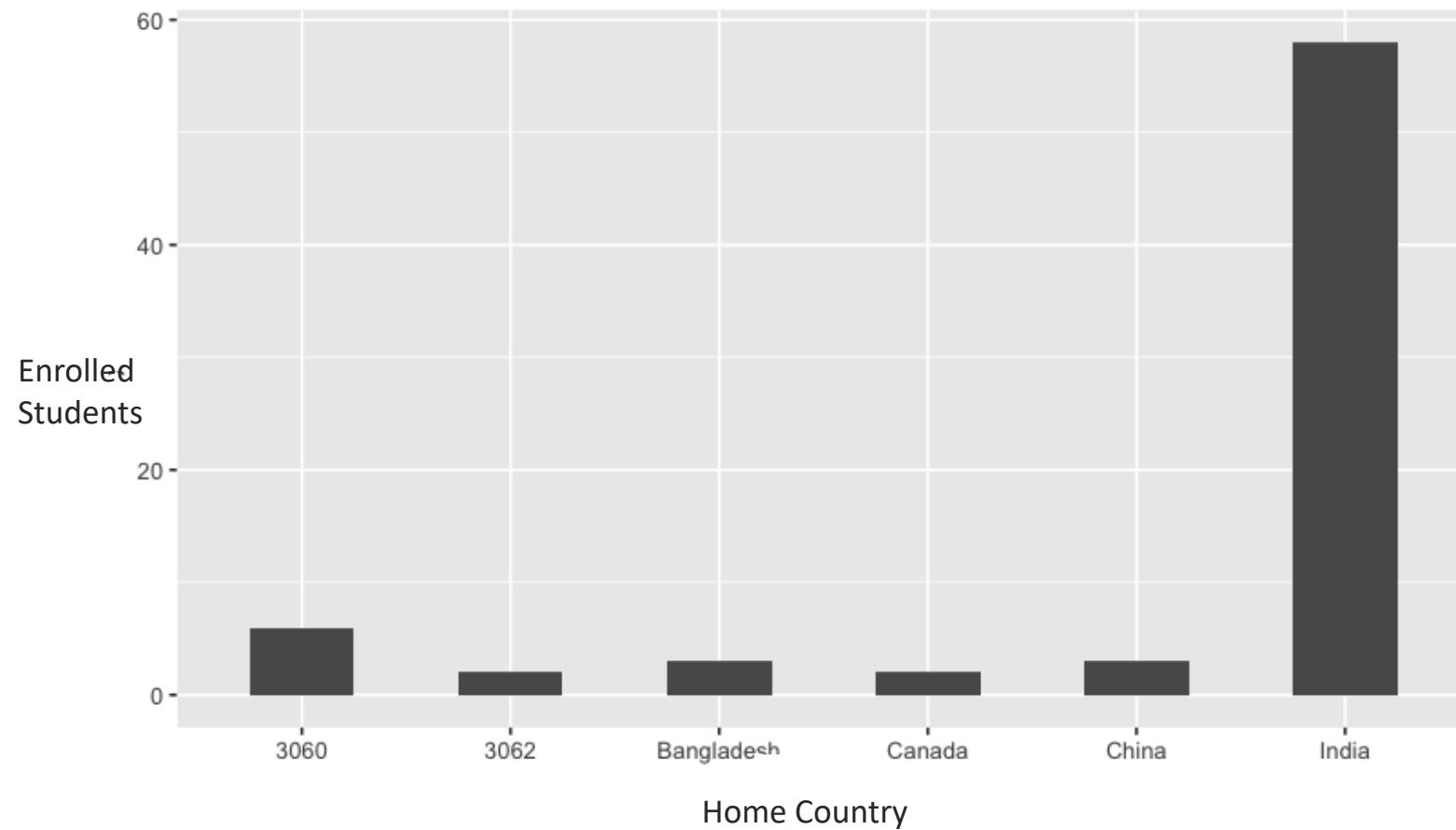
Median income:
\$145,973

Female

Marketing strategy: The median salary for her intended major is below the mean median salary for all majors and below her current income. We should approach her with scholarships offerings.

International Students

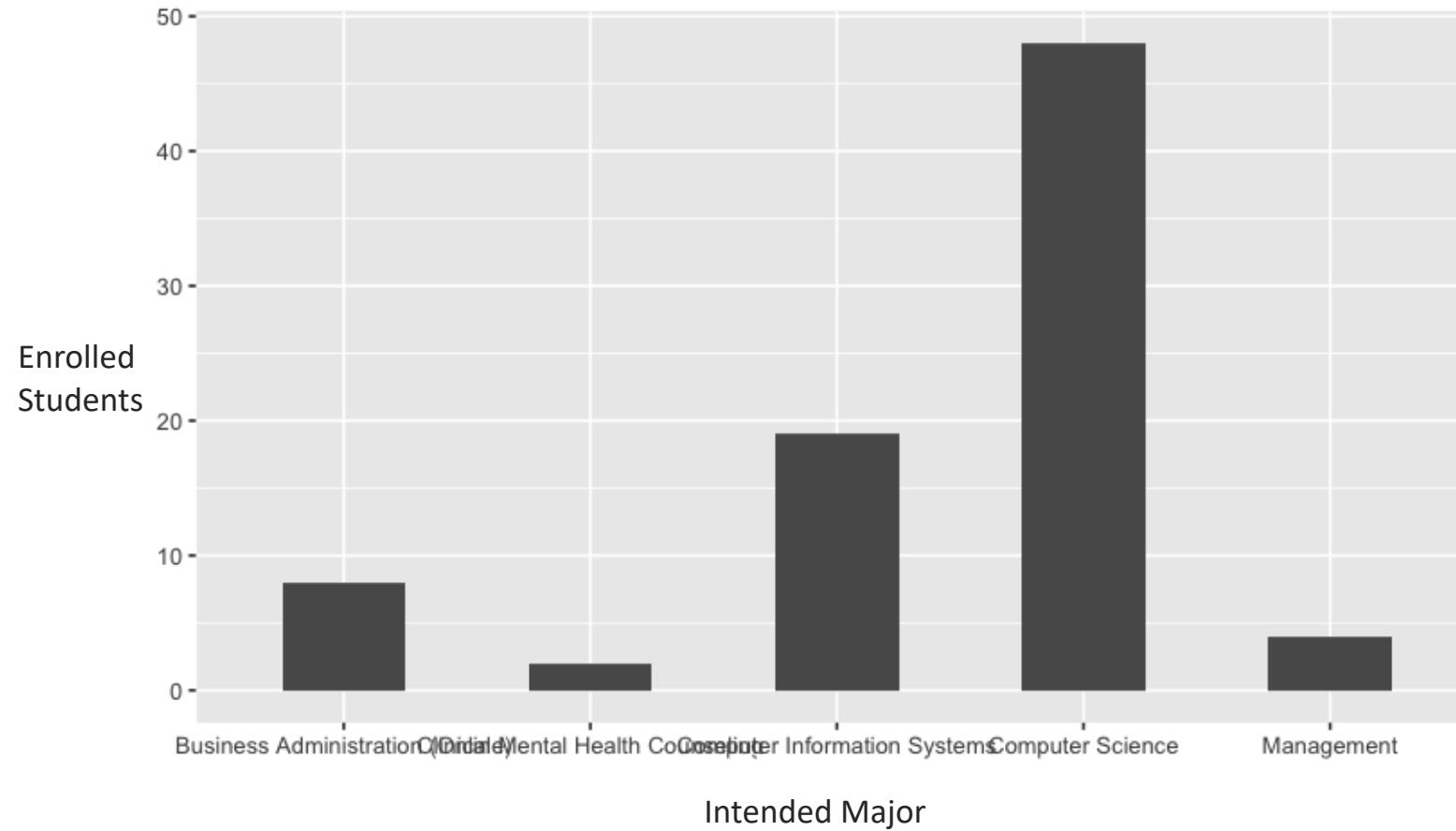
Enrolled International Students by Country



Most international
students are from India

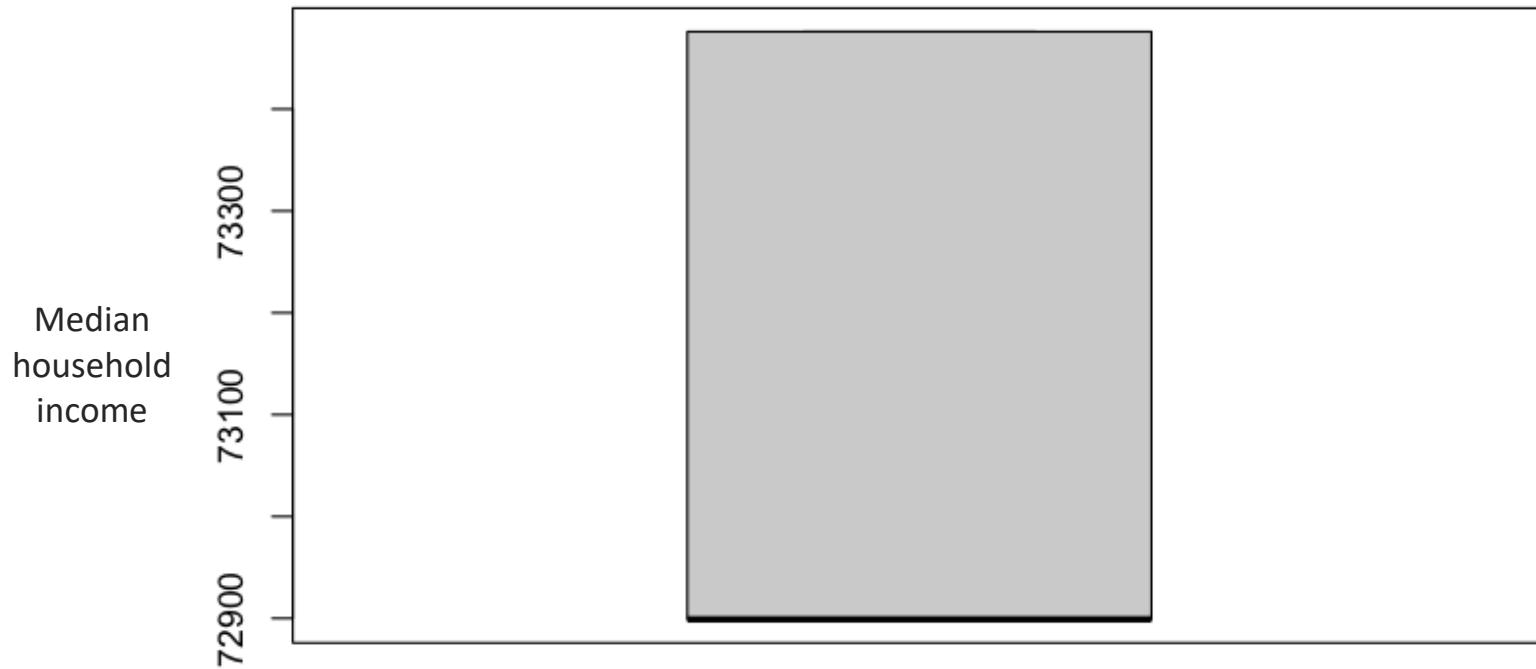
International Students

Enrolled International Students by Major



 **Computer Science**
Most Popular Major
among International
Students

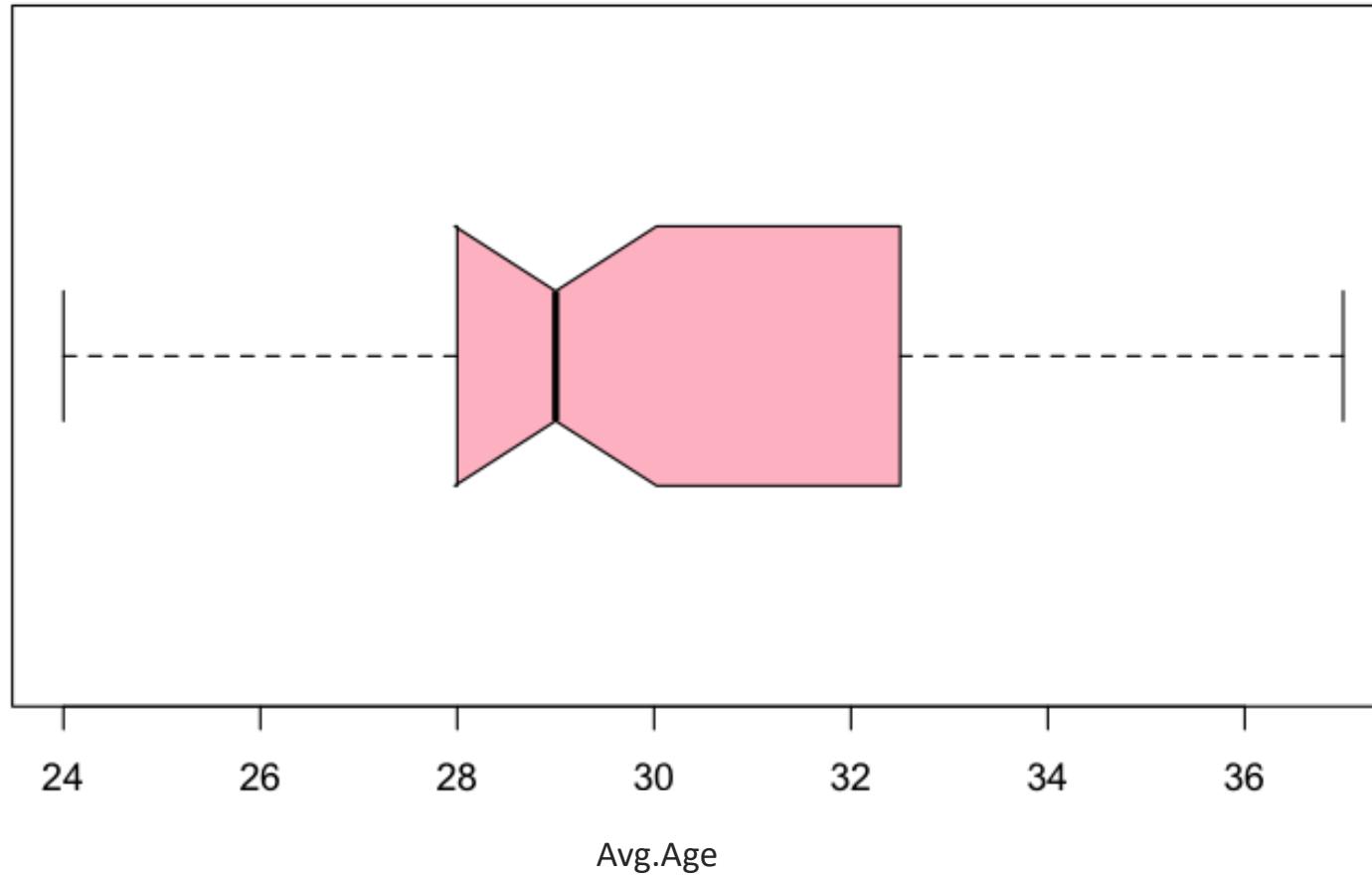
International Students



\$ **\$74,952**

Avg. median household income removing those that were more than 1sd from the mean

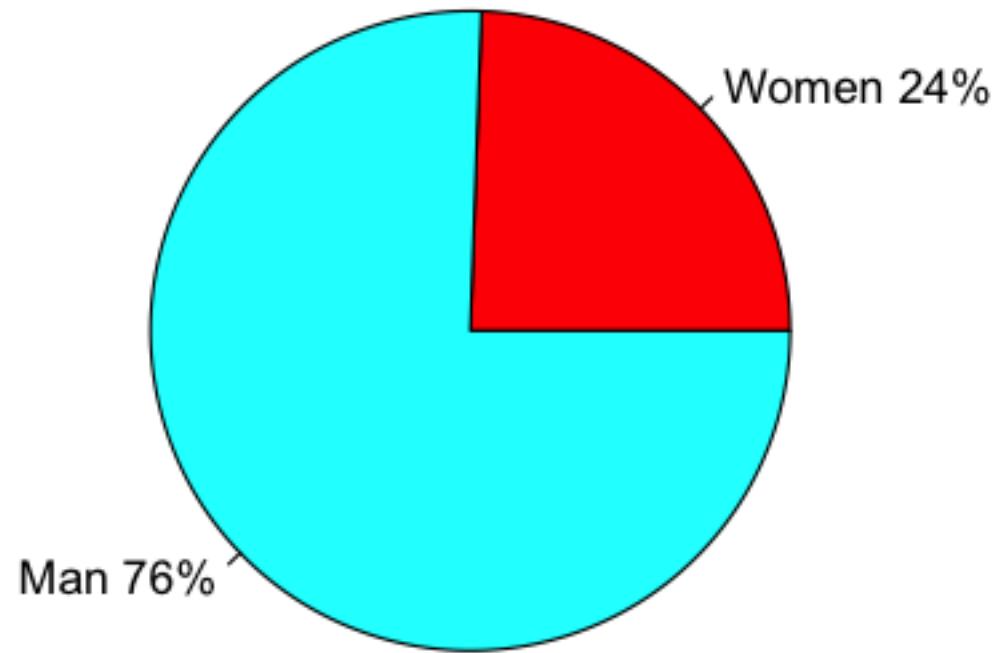
International Students

 30

Avg. age removing outliers

International Students

Female vs. Male International Students



Persona 3

Ramesh



International
Student

From India

30 years-old

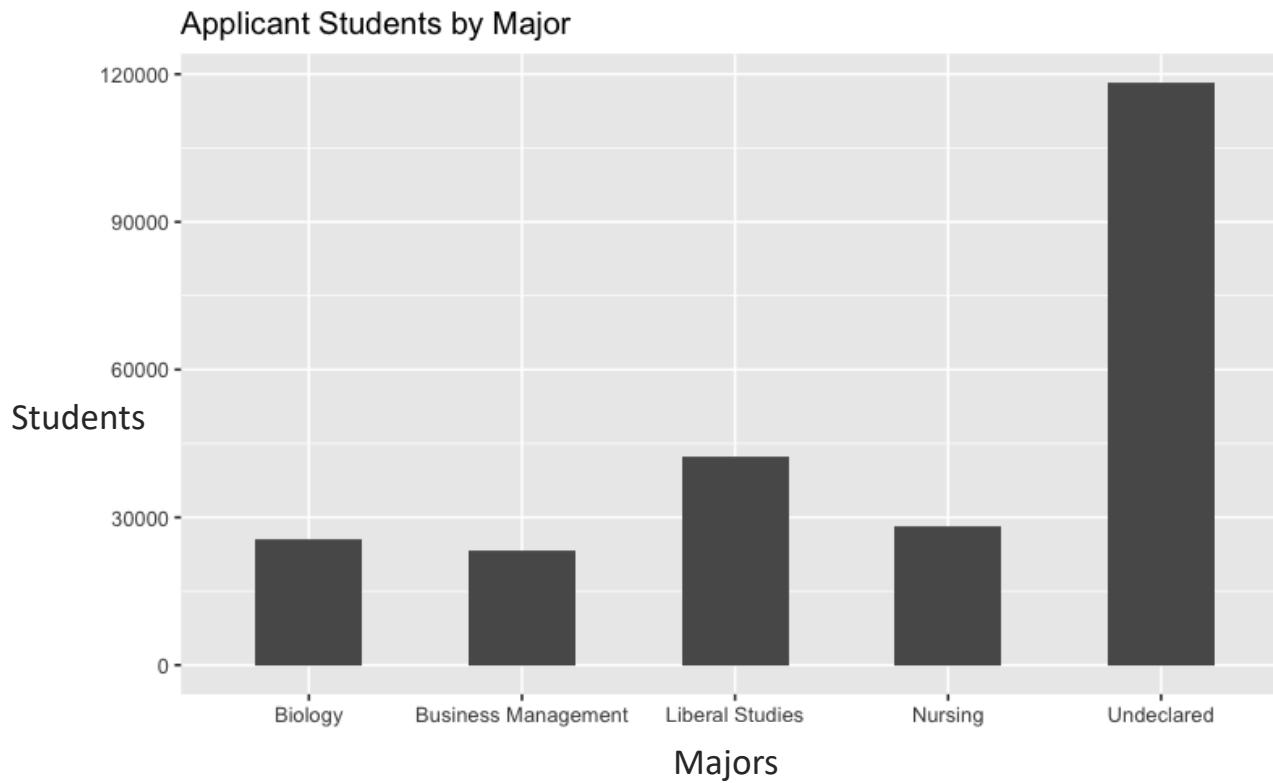
Wants to pursue a
degree in CS

Median income:
\$74,952

Male

Marketing strategy: Approach him offering visa sponsorship and scholarship offerings. A better marketing strategy needs to be directed at him to increase the % of international students.

Most Popular Majors



409447

Applicants

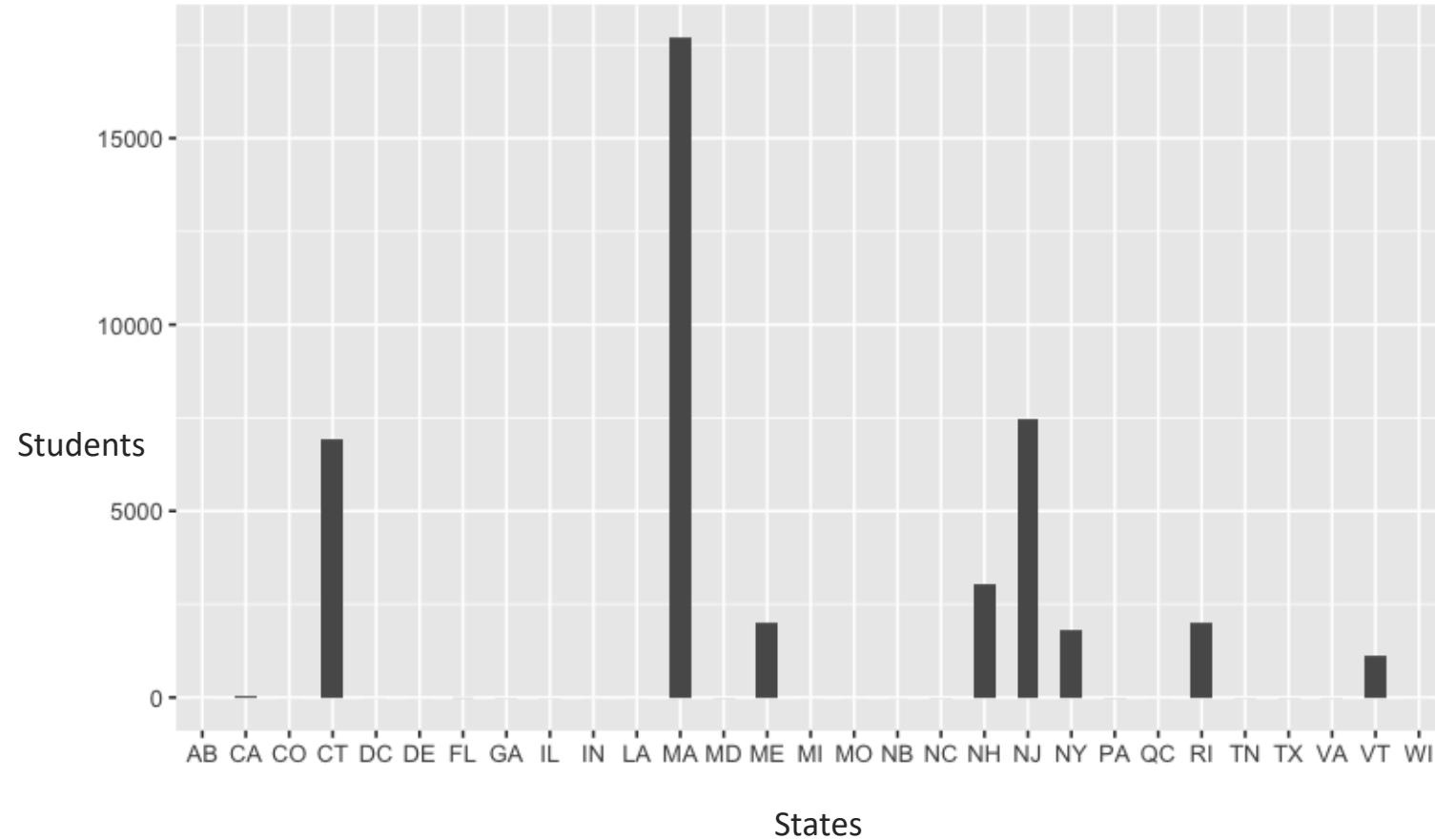
+15%

Wants to pursue a
degree in Liberal
Studies

Liberal Studies Applicants



Applicants to Liberal Studies per State

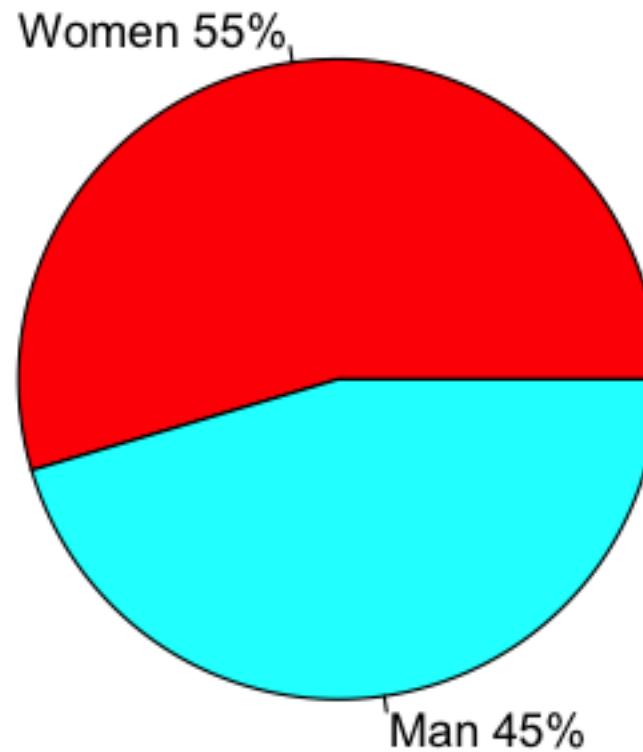


Massachusetts

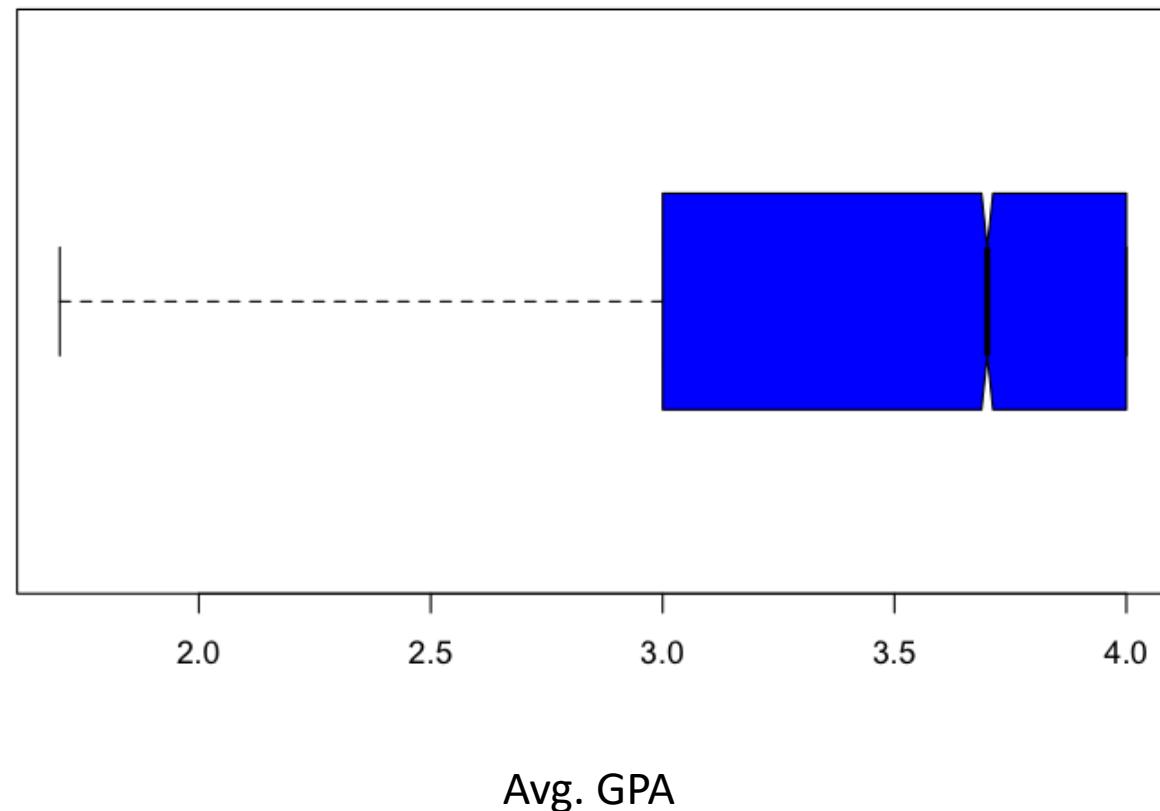
Most of Liberal Studies applicants are from Massachusetts

Liberal Studies Applicants

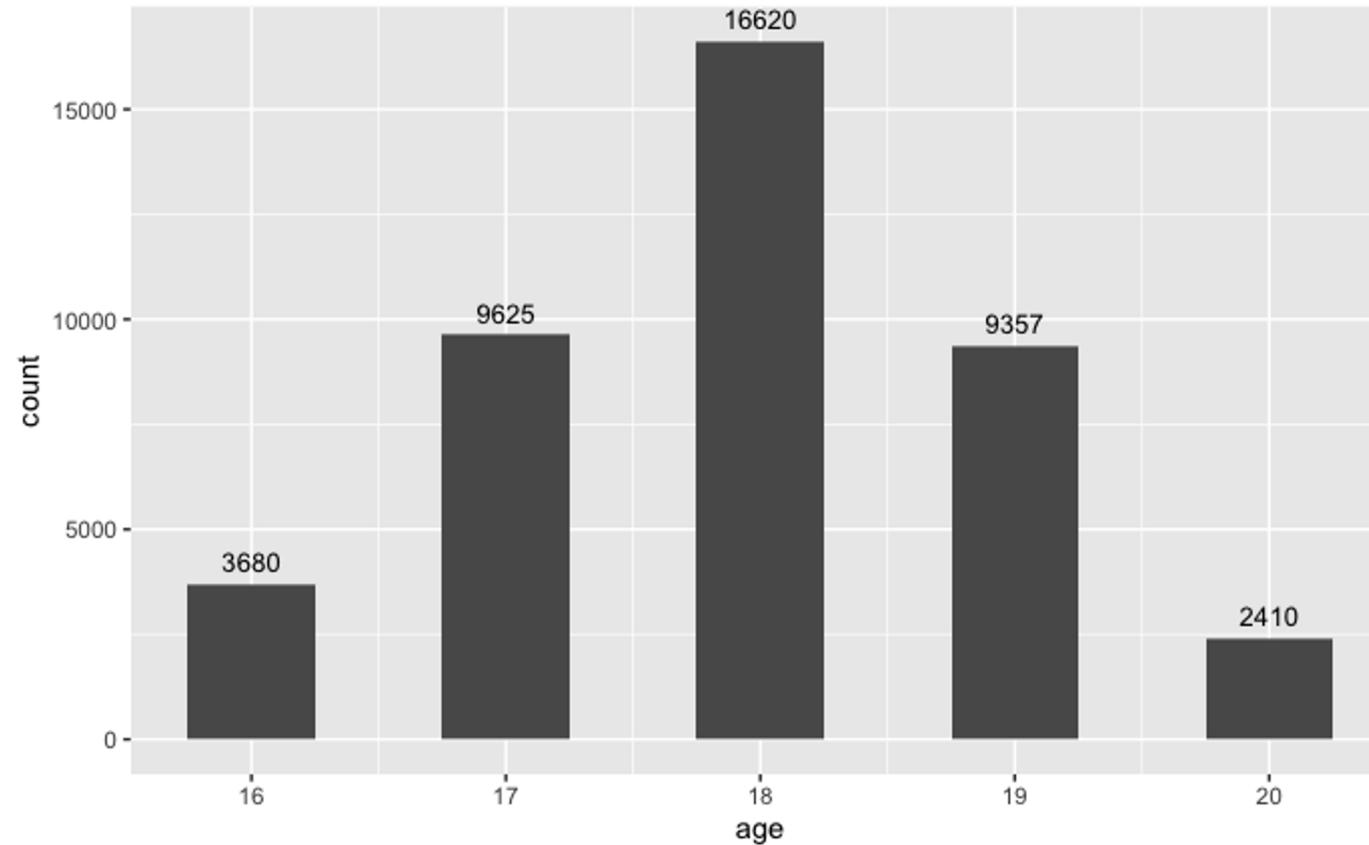
Female vs. Male Liberal Studies Students



Liberal Studies Applicants

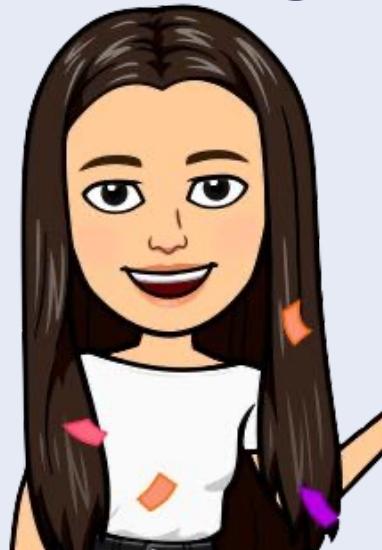


Age Distribution of Liberal Studies Applicants



Persona 4

Wendy



National Student

From MA

3.34 GPA

18 years-old

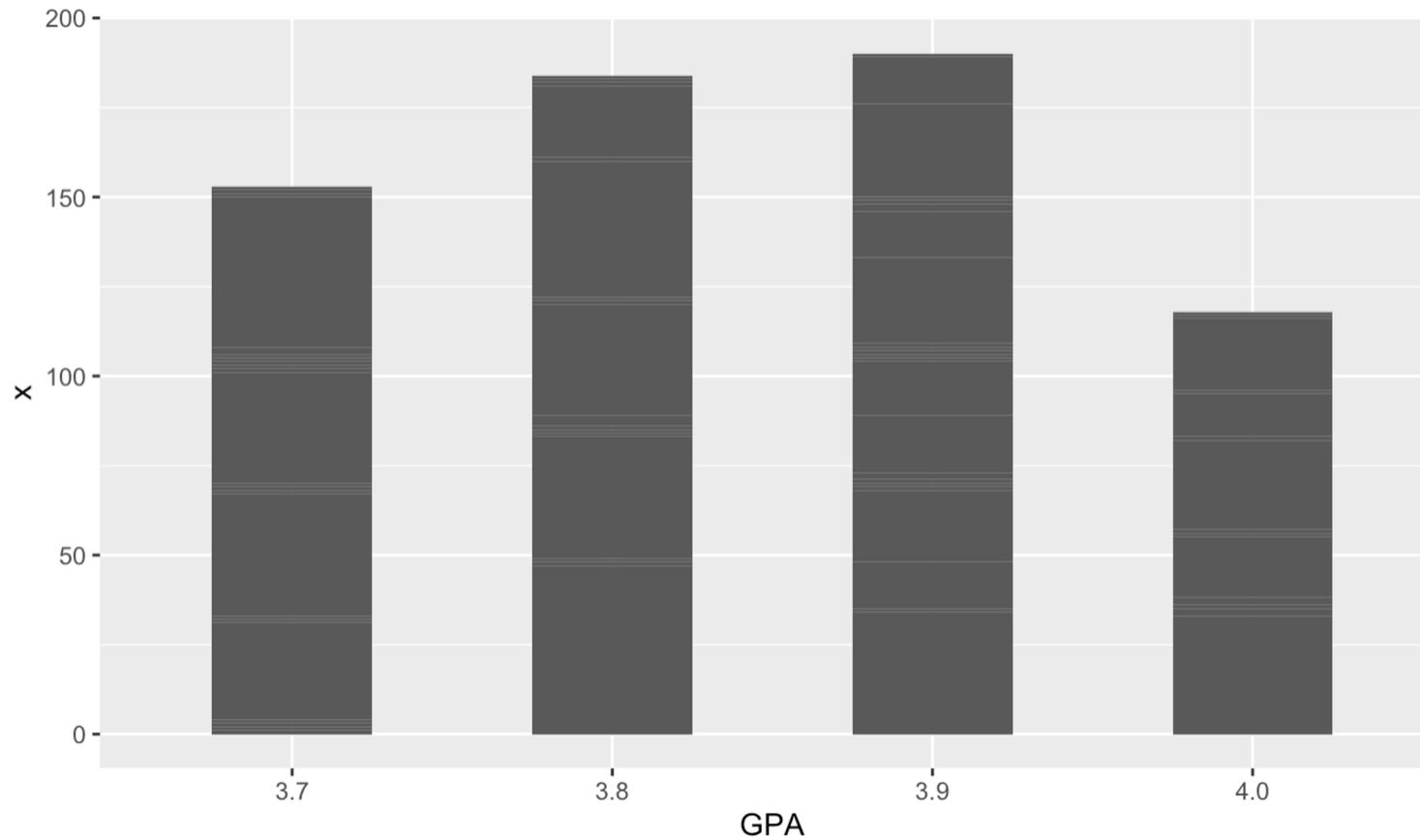
Wants to pursue a
degree in Liberal
Studies

Median income:
\$ 145,973

Female

Marketing strategy: Liberal Studies as a major doesn't need promotion since it is the most popular one among candidates, however, it is one of the least popular ones among enrolled students. We could try to understand why applicants don't end up being enrolled.

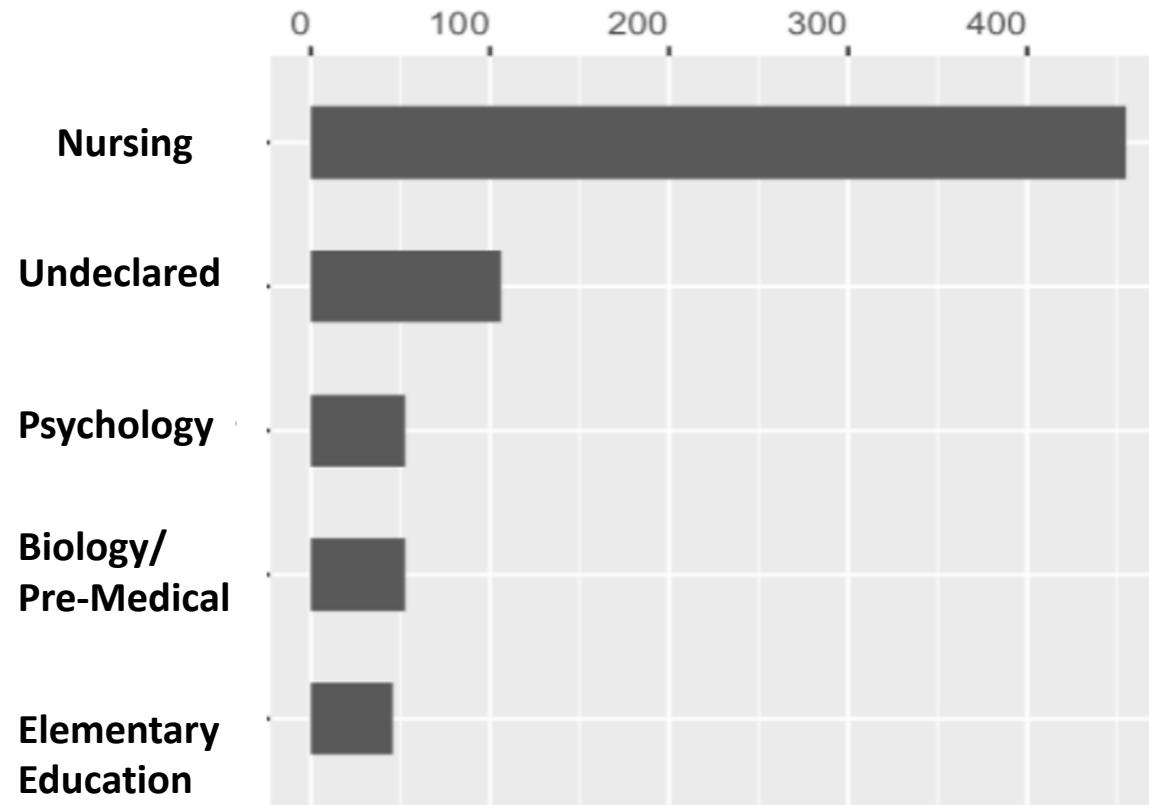
Students with the best GPA in HS



30%

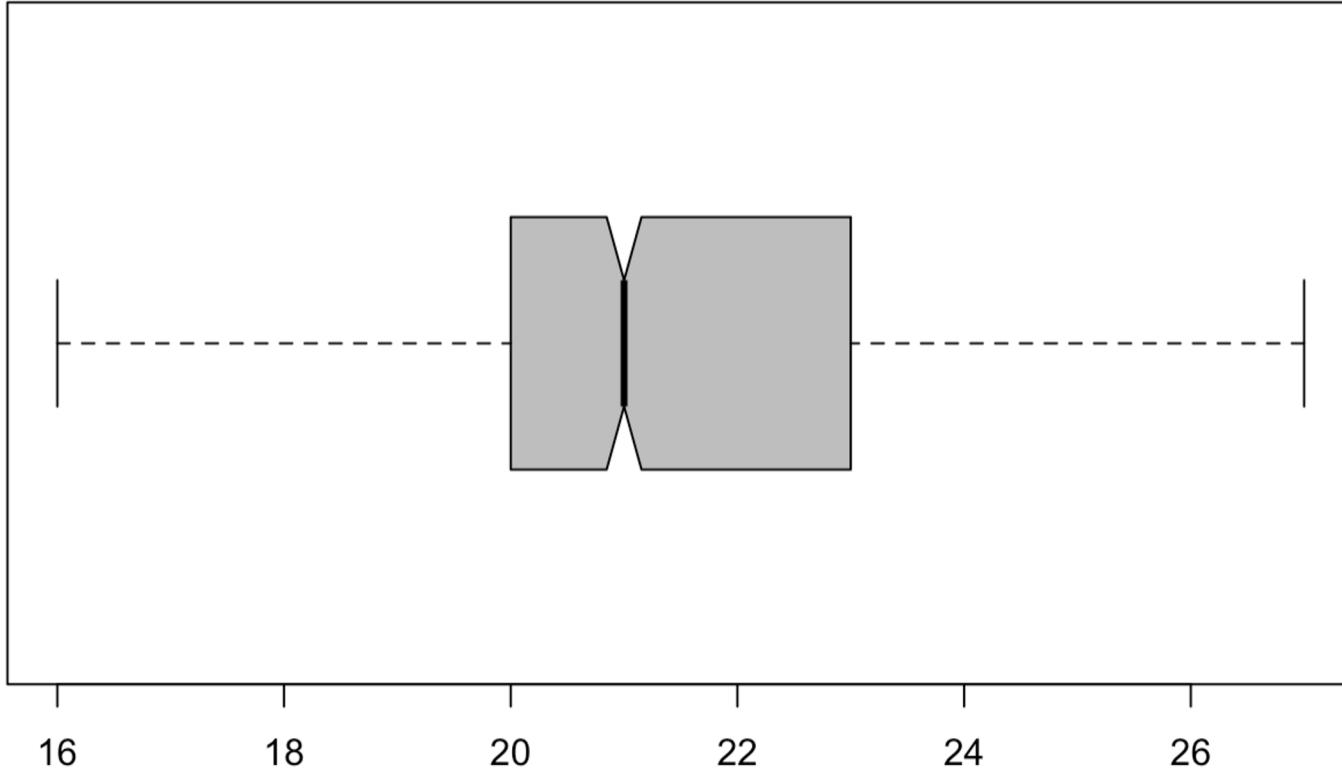
3.9

Top 5 Chosen Majors by Them



TOP 1
Nursing

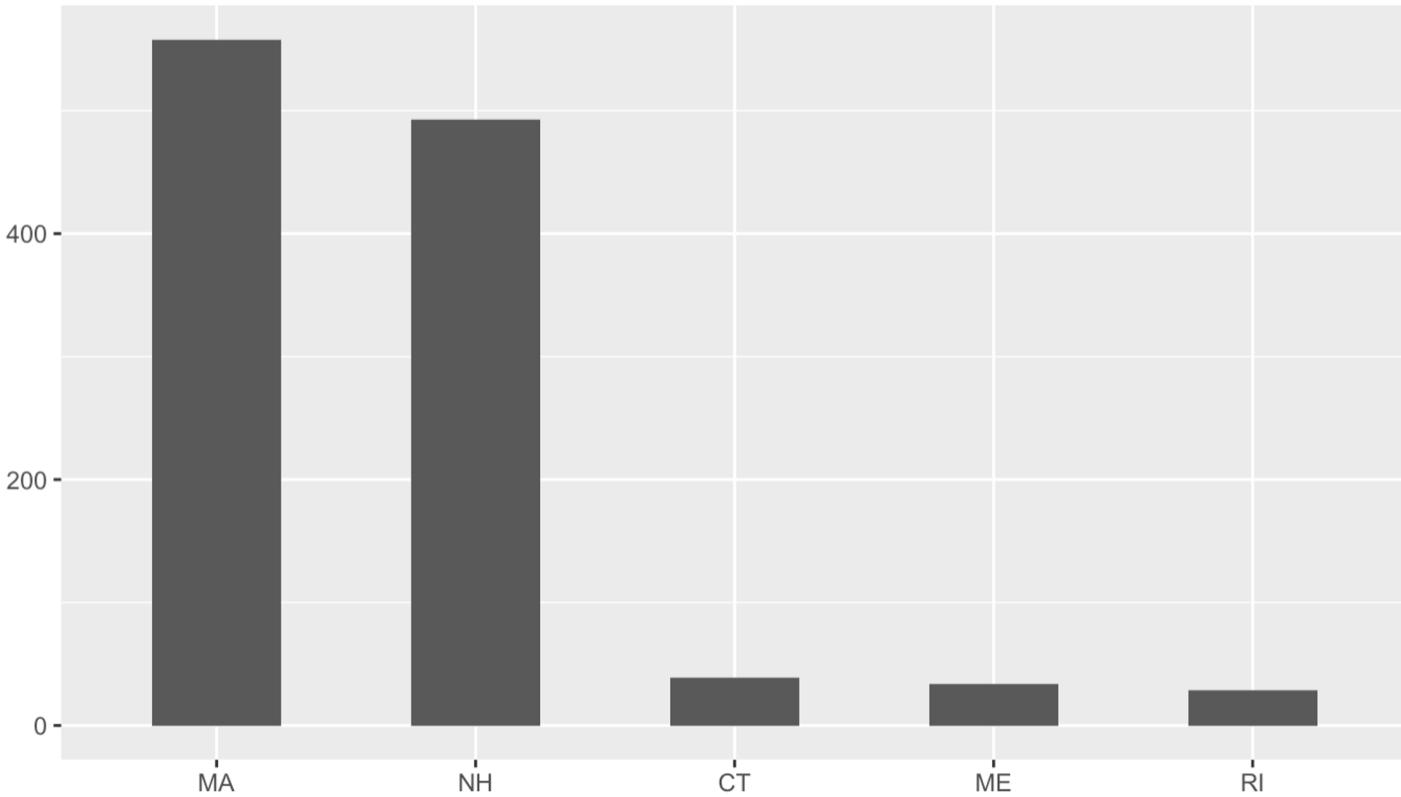
Best HS GPA Students' age



21

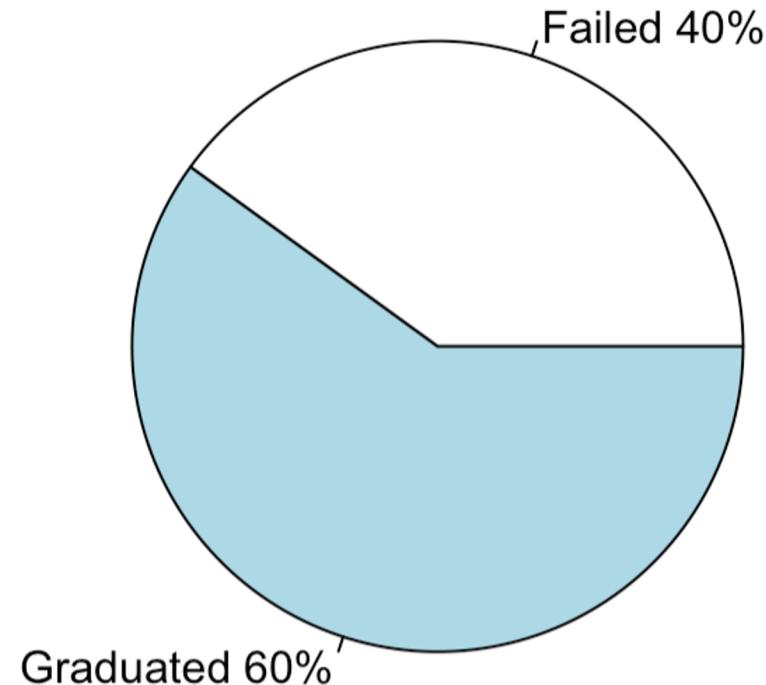
Avg. age removing
outliers

5 States with the Most A



MA,
Massachusetts

Most students get an
A in high school are
from Massachusetts.



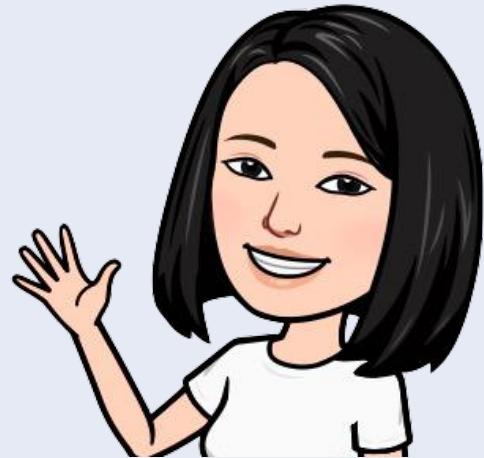
Grade A Students “College Graduation”

60%

Graduation

Persona 5

Sarah



National Student

From MA

3.9 GPA

Wants to pursue a
degree in Nursing

21 years-old

Female

Marketing strategy: 1. Nursing major can target students with high GPA in MA and NH since most grade A students who are interested in nursing major are from these two states.
2. Set “Elite Club” to attract the top students.



Questions?