13. Case Study in Python

Case Study in Python

Use the Jupyter notebook to analyze `admission_data.csv` to find the following values and for the quizzes below. Indexing, query, and groupby may come in handy!

1. Proportion and admission rate for each gender
2. Proportion and admission rate for physics majors of each gender
3. Proportion and admission rate for chemistry majors of each gender
4. Admission rate for each major

QUIZ QUESTION::

Match the correct values

ANSWER CHOICES:

0.287938 | 0.485597 | 0.486 | 0.514

Feature	Value
Proportion of students that are female	0.514
Proportion of students that are male	0.486
Admission rate for females	0.2879
Admission rate for males	0.485597

By only looking at gender and admission rates, who appears to be favored in the admissions process?

admissions process?

○ Females

● Males

QUIZ QUESTION::

Match the correct values

ANSWER CHOICES:

0.742 | 0.121 | 0.926 | 0.516

Feature	Value
Proportion of females with physics majors	0.121
Proportion of males with physics majors	0.926
Admission rate for female physics majors	0.742
Admission rate for male physics majors	0.516

Of the students applying as physics majors, who appears to be favored in the admissions process?

● Females

○ Males

Who tends to have more physics majors than chemistry majors?

○ Females

●Males

QUIZ QUESTION::

Match the correct values

ANSWER CHOICES:

0.226 | 0.074 | 0.111 | 0.879

Feature	Value
Proportion of females with chemistry majors	0.879
Proportion of males with chemistry majors	0.074
Admission rate for female chemistry majors	0.226
Admission rate for male chemistry majors	0.111

Of the students applying as chemistry majors, who appears to be favored in the admissions process?

● Females

○ Males **:**

Who tends to have more chemistry majors than physics majors?

● Females

○Males

Which major has a lower admission rate?

○ Physics

●Chemistry

Next Concept