Data Analytics

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Start Date :-10-05-2025

End Date:-11-05-202

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- **TITLE:-**"Student enrollment Analysis for Strategic Admissions Planning".

- **DOMAIN:-**"School Dataset"

- **DISCRIPTION:-**"We looked at which classes (standards) have the most Students.This helps you focus on promoting the most popular courses and improve marketing for those with fewer students."

Skills:- "1 Python","2 Pandas","3 Statistics",

"4 Data manipulation","5 Data Analysis",

"6 Data transformation","7 Data cleaning",

"8 Data visualization", "9 Project methodology"

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- Introduction

- **Data Analytics** is the **process** of **collecting**, **cleaning**, **examining**, and **visualizing** data to find **useful information**, **patterns**, and **insights** for better **decision-making**.

- >>>how to students take more admission in the School

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- Objective.

- To analyze student admission data in order to identify trends, patterns, and opportunities that can help the school increase enrollment, improve student retention, and make informed decisions on gender, class-level, and new vs. returning student distributions.

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- **Data description**
- There are 187 rows and 18columns.
- There are some count variable and some time series.
- Gather raw data from databases, exel, websites, etc
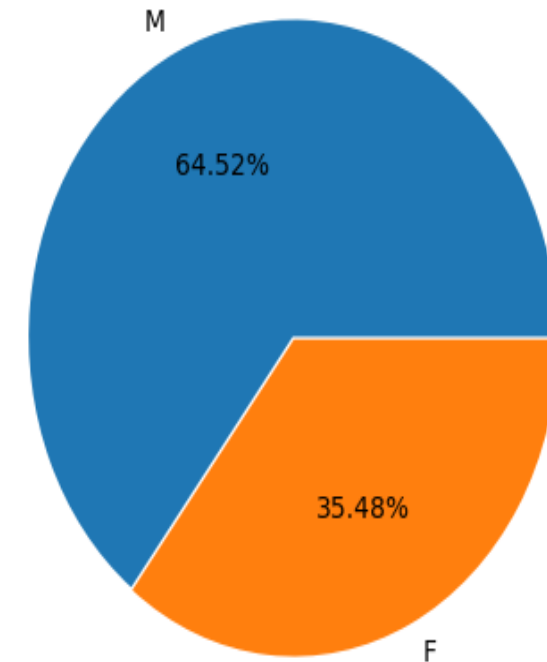
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- **Data Preprocessing**

- **Clean Data**   Fix missing values, wrong formats, remove
                          duplicates,Outliers
- **Visualize Data**   Make graphs (bar charts, pie charts, countplots)
-                           to understand better
- **Get Insights**   Find answers to important business or research
                          questions

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- Exploratory Data Analysis (EDA)
- visualizations: This plot show the number of male and female student who took a admission.
- Approx 65% male.
- Only 35 % female

Total number of male and female student

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Suggestion

Use posters, WhatsApp messages, or videos featuring **for students**

Ensure availability of **female teachers**, especially in higher classes.

- Create a **girls' help desk** or mentoring system

Provide **separate washrooms**, hygiene products, and safe facilities.

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- Exploratory Data Analysis (EDA)
- Visualizations:
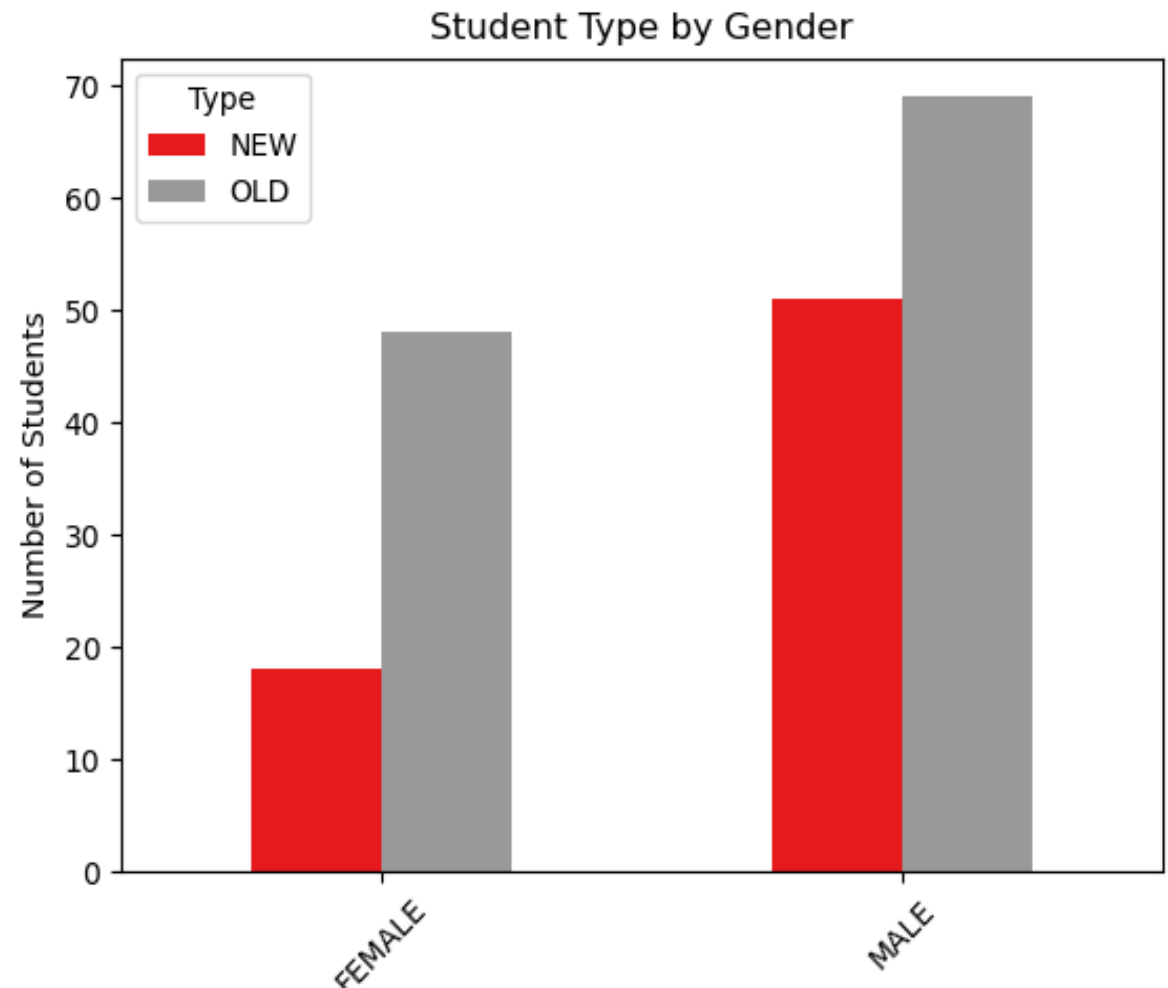- This plot show the number of old and new student who took a admission each class.

class Type by old and new
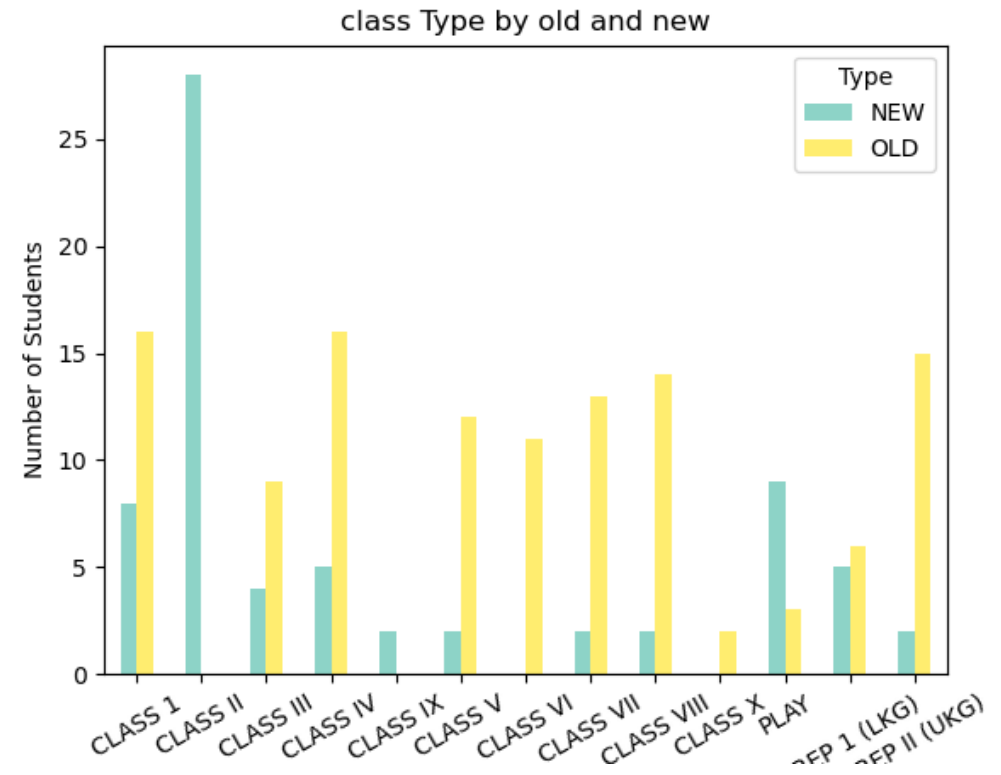
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Suggestion

- Highlight board exam preparation support and subject-specific teachers.

- Offer scholarships for girl students or high scorers in Class VIII.

- Promote career counseling sessions and alumni success stories

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- Exploratory Data Analysis (EDA)
- This plot show the number of old and new student who took a admission each gender.
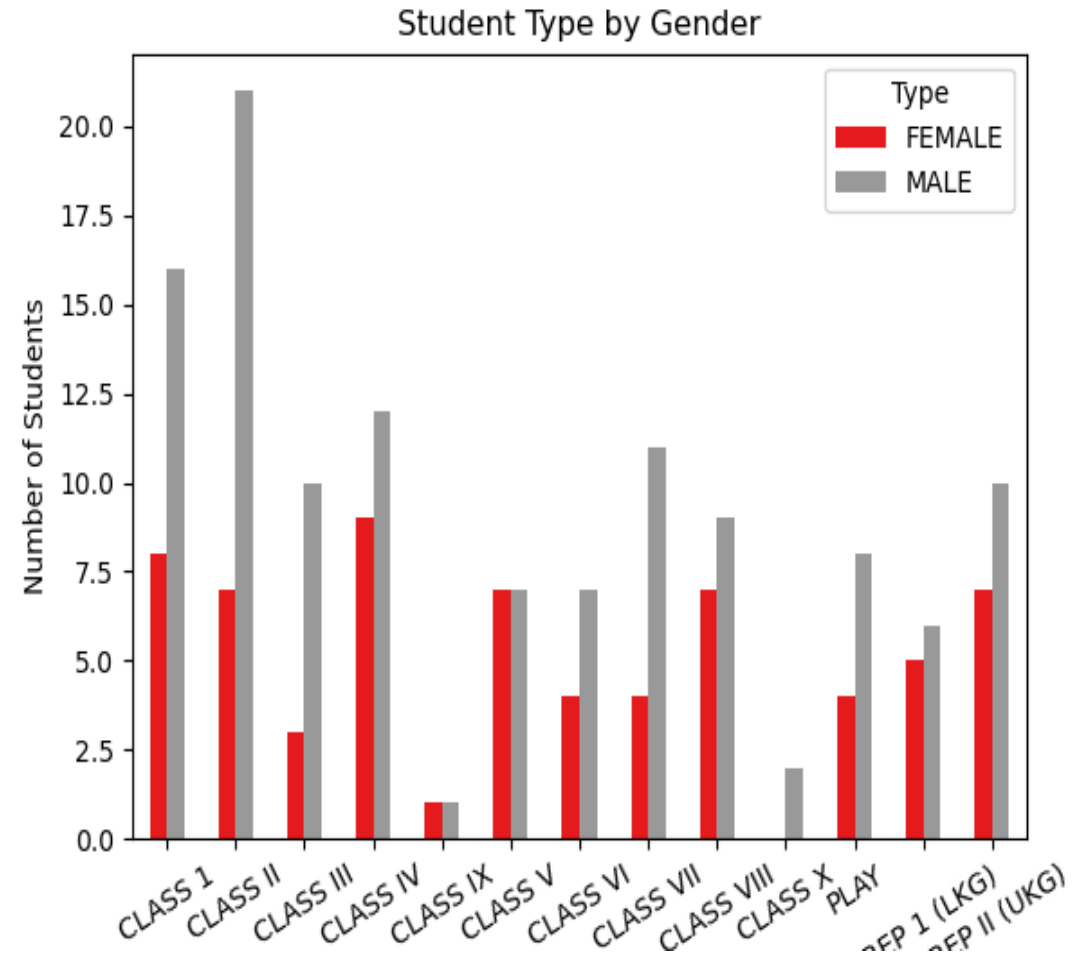
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Suggestion

Fee discounts or scholarships for *new* students

Free books, uniforms, or starter kits.

Refer a friend" bonuses for current students.

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- Exploratory Data Analysis (EDA)
- visualizations:
- This plot show the number of old and new student who took a admission each gender in each class.

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Suggestion

Girls Offer safety assurances, female teachers, scholarships, and promote female role models.
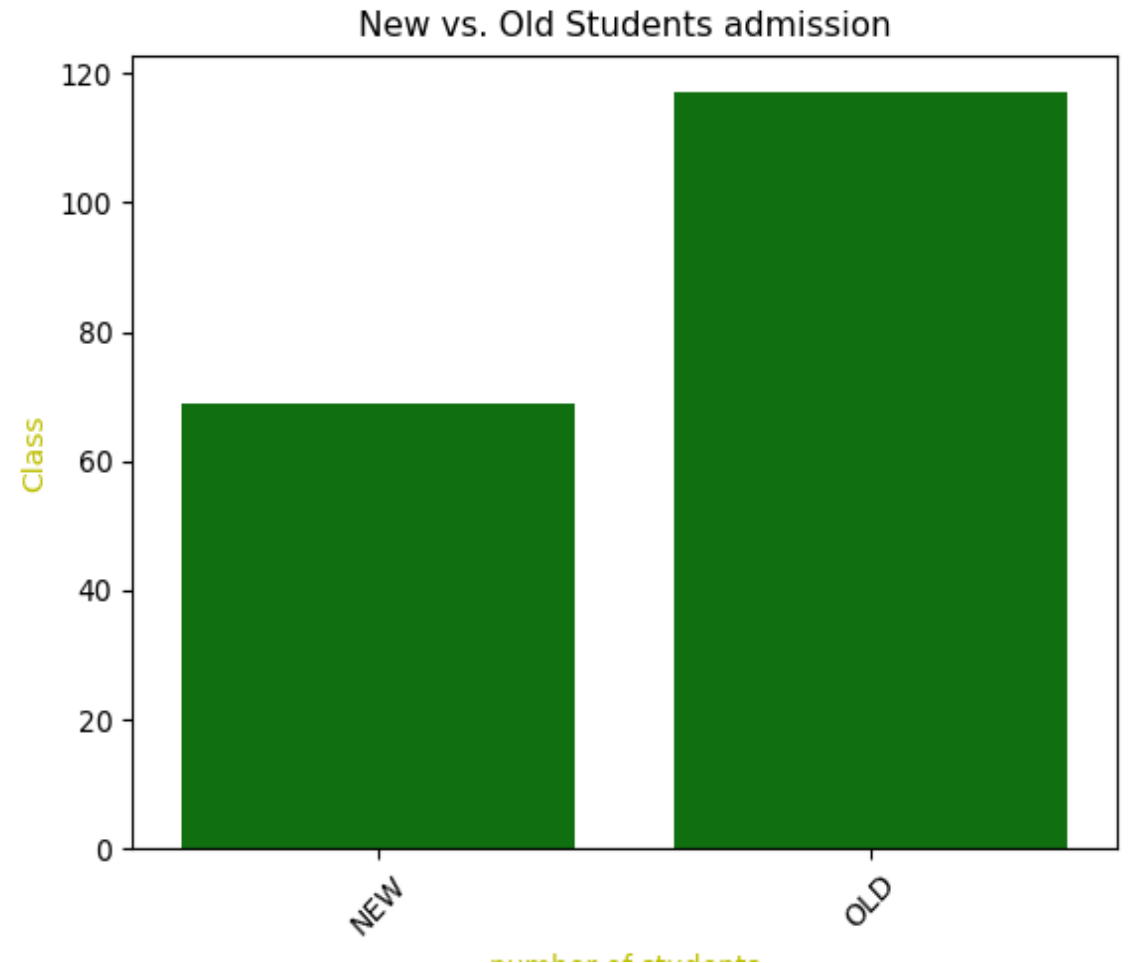
Promote your school: through social media, posters, and community visits.

Highlight:
- Qualified teachers
- Exam results
- Facilities (labs, sports, digital classrooms)

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- Exploratory Data Analysis (EDA)
- visualizations:
- This plot show the number of old and new student who took a admission.
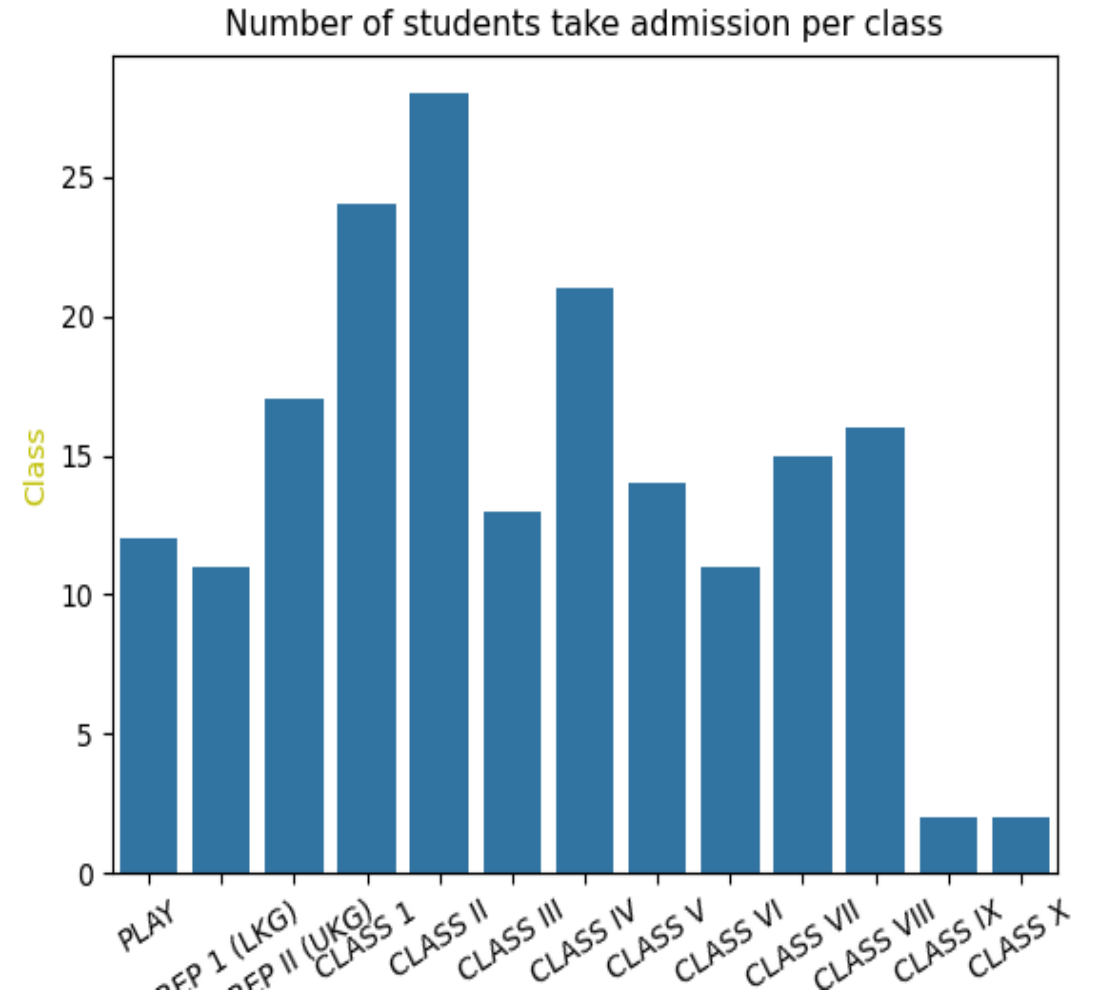
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Suggestion

Distribute **flyers and posters** in nearby schools, tuition centers, and communities

Run **WhatsApp/social media campaigns** with clear admission info

Host **open house/demo classes** where parents and students can visit.

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- Exploratory Data Analysis (EDA)
- visualizations:
- This plot show the number of student who took a admission.

Number of students take admission per class

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Suggestion

- In Class –II took more admission but in Class –IX or X took less admission.
- Organize **orientation sessions** for Class VIII students to explain the benefits of continuing in Class IX and X.
- Highlight academic results, board exam preparation, and support systems.
- To suggest increasing the intake/capacity of students in Classes XI and XII.
- Highlight current limitations or issues (e.g., high student demand, limited seats, competitive cutoffs).