

- ☐ GPA Distribution
- ☐ Study Hour VS GPA
- ☐ Attendance VS GPA
- ☐ Impact of PartTime job
- ☐ Effect of Activities
- ☐ Major VS GPA
- ☐ Gender VS GPA
- ☐ At Risk Students
- ☐ Success Prediction



ACADEMIC PERFORMANCE DASHBOARD

Prepared by Likhitha Remala

Overall GPA Distribution



GPA Distribution



Study Hour VS GPA



Attendance VS GPA



Impact of PartTime job



Effect of Activities



Major VS GPA



Gender VS GPA



At Risk Students



Success Prediction

Gender

All

Major

All

ExtraCurricular...

All

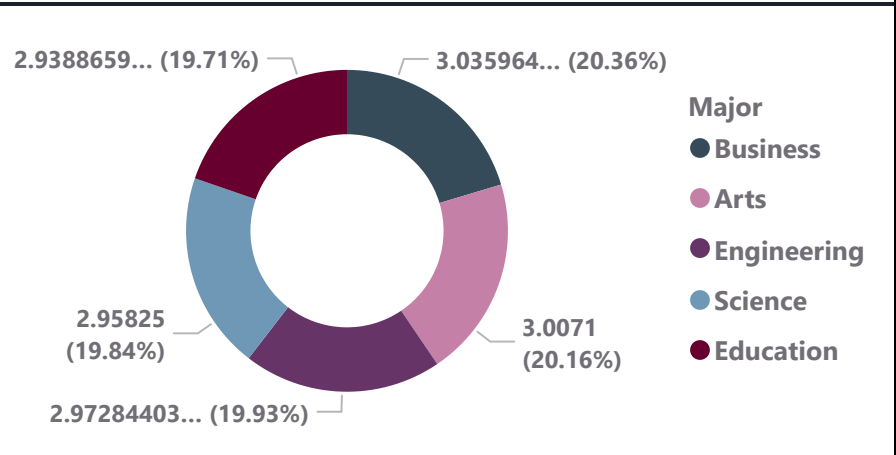
PartTimeJob

All

Count of StudentID and Average GPA by GPA Bins



Average of GPA by Major



3.99

Max of GPA

2.00

Min of GPA

2.99

Average GPA

500

Total Students

SUMMARY

"Total students: 500. Students at risk: 0.05%.

Average GPA is 2.99.

Maximum GPA is 3.99, Minimum GPA is 2.00.

Highest GPA Major is Business, Lowest is Science."

Study Hours vs GPA Analysis

☐ GPA Distribution

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Gender

All

Major

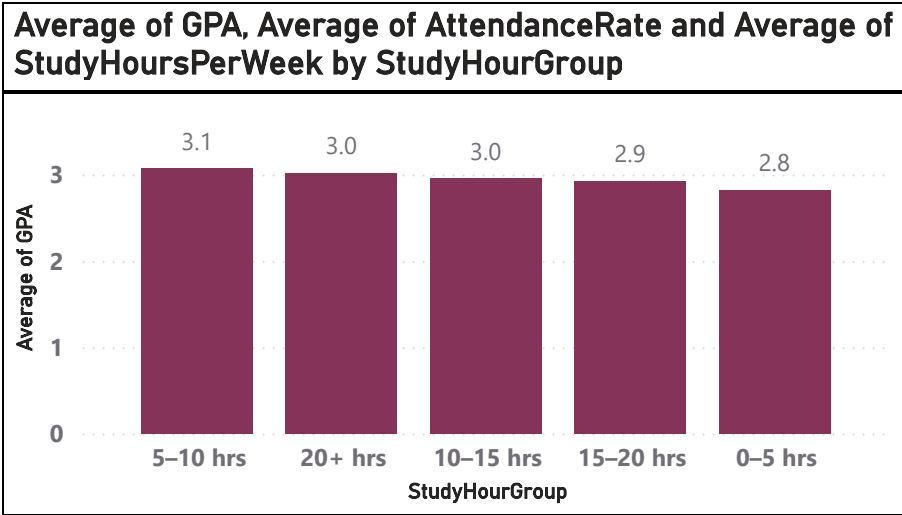
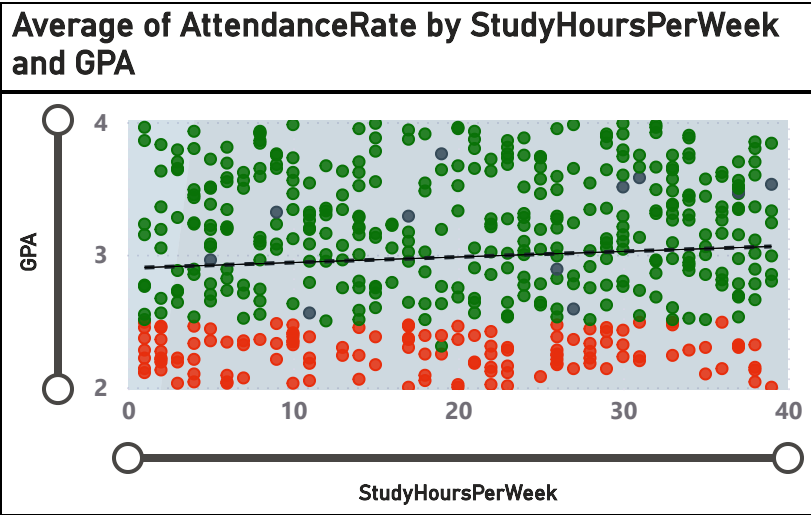
All

ExtraCurricular...

All

PartTimeJob

All



5-10 hrs

TopGroupOnly

Average GPA by StudyHourGroup

3.07

Summary

At 3.07, 5-10 hrs had the highest Average of GPA and was 8.73% higher than 0-5 hrs, which had the lowest Average of GPA at 2.82. Across all 5 StudyHourGroup, Average of GPA ranged from 2.82 to 3.07.

Count of StudentID	StudyHourGroup	Aver
57	0-5 hrs	
64	10-15 hrs	
52	15-20 hrs	
261	20+ hrs	
66	5-10 hrs	
500		

Attendance Rate vs GPA Correlation

☐ GPA Distribution

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Gender

All

Major

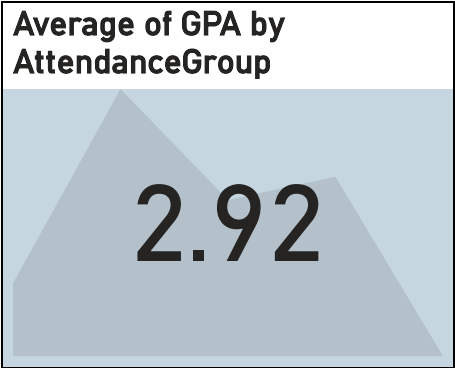
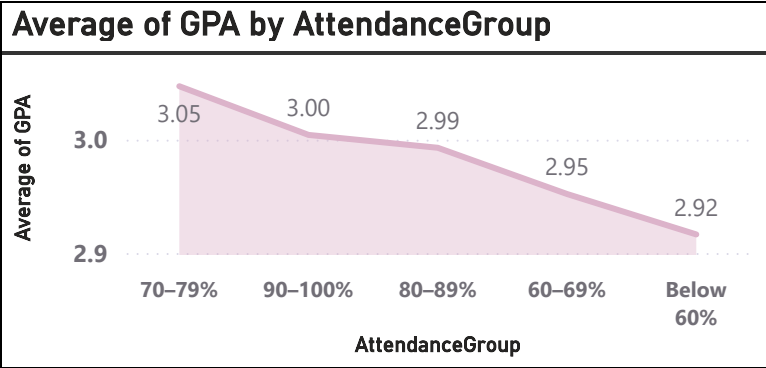
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ExtraCurricula...

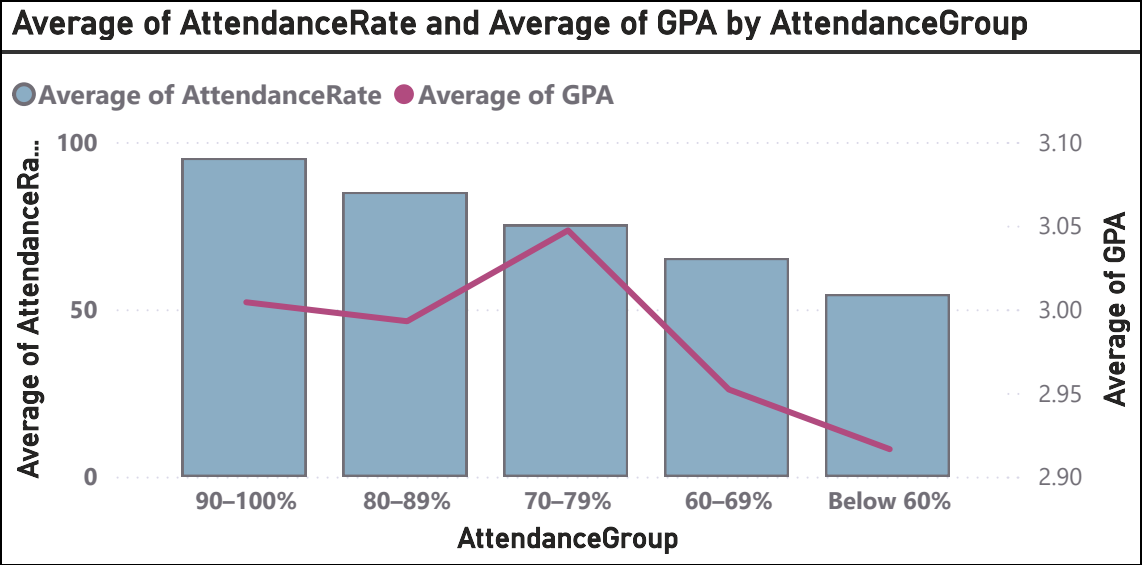
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PartTimeJob

All



70-79%
TopAttendanceGroup



Summary

At 95.18, 90-100% had the highest Average of AttendanceRate and was 74.70% higher than Below 60%, which had the lowest Average of AttendanceRate at 54.48.

Average of AttendanceRate and total Average of GPA are positively correlated with each other.

Average of AttendanceRate and Average of GPA diverged the most when the AttendanceGroup was 90-100%, when Average of AttendanceRate were 92.18 higher than Average of GPA

Impact of Part-Time Job on GPA

GPA Distribution

Study Hour VS GPA

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Major

All

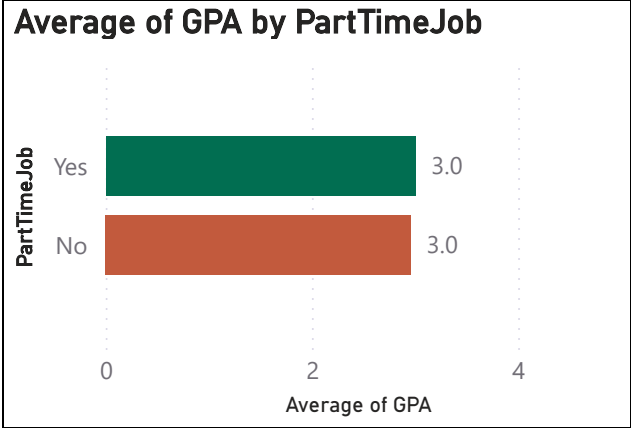
ExtraCurricula...

All

PartTimeJob

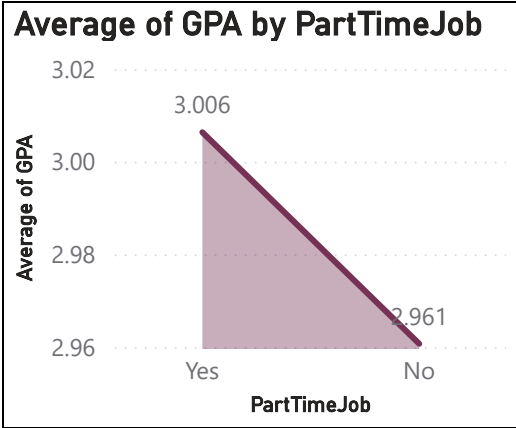
All

Average of GPA by PartTimeJob



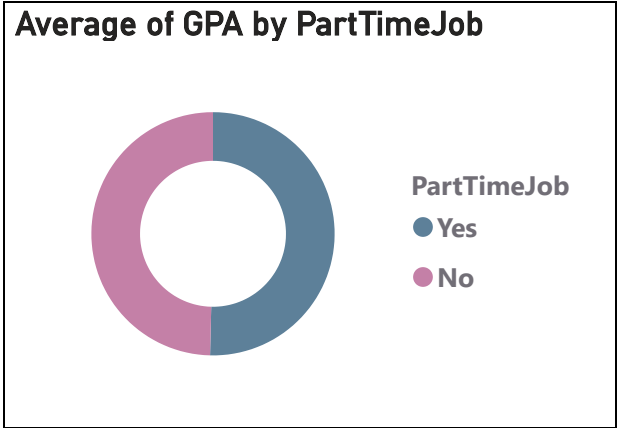
PartTimeJob	Average of GPA
Yes	3.0
No	3.0

Average of GPA by PartTimeJob



PartTimeJob	Average of GPA
Yes	3.006
No	2.961

Average of GPA by PartTimeJob



PartTimeJob	Percentage
Yes	46.02%
No	53.98%

3.01

GPA_WithJob

2.96

GPA_WithoutJob

2.99

Average of GPA

Summary

Sum of GPA for Yes (805.70) was higher than No (686.88).

Yes accounted for 53.98% of Sum of GPA.

Yes had 805.70 Sum of GPA and No had 686.88.

Interestingly part-time job holders make up the majority of total GPA contribution, they only show a marginal difference in average GPA

Effect of Extracurricular Activities on GPA

☐

GPA Distribution

☐

Study Hour VS GPA

☐

Attendance VS GPA

☐

Impact of PartTime job

☒

Effect of Activities

☐

Major VS GPA

☐

Gender VS GPA

☐

At Risk Students

☐

Success Prediction

Gender

All

Major

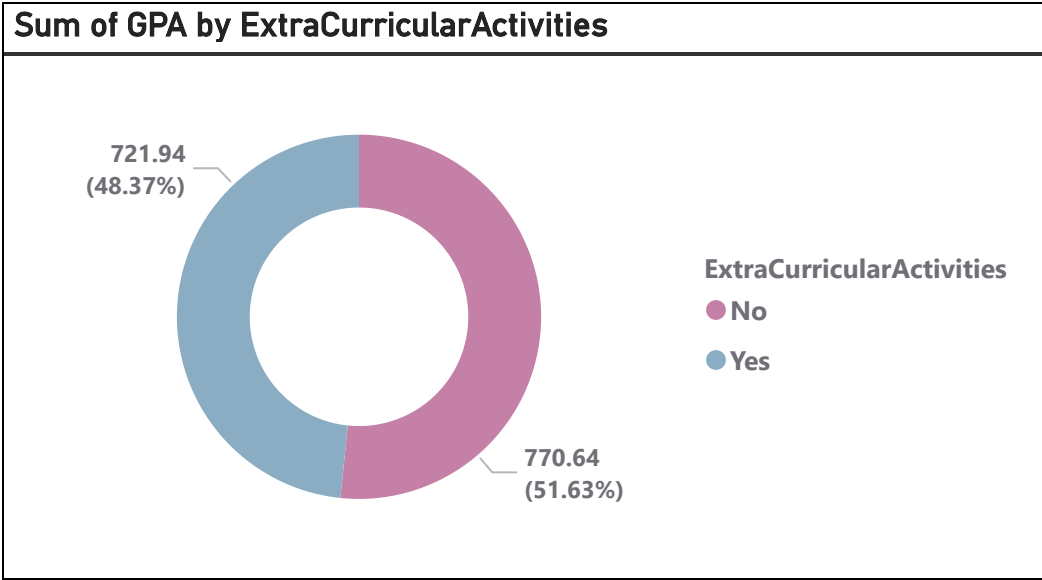
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ExtraCurricula...

All

PartTimeJob

All

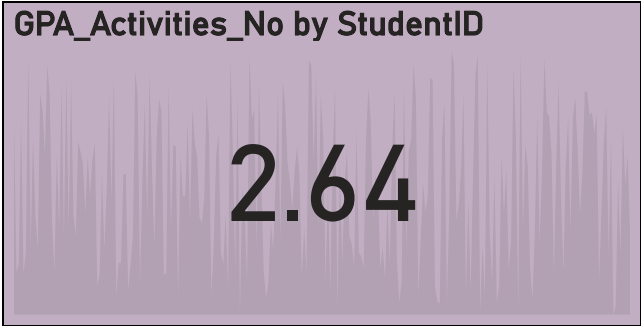
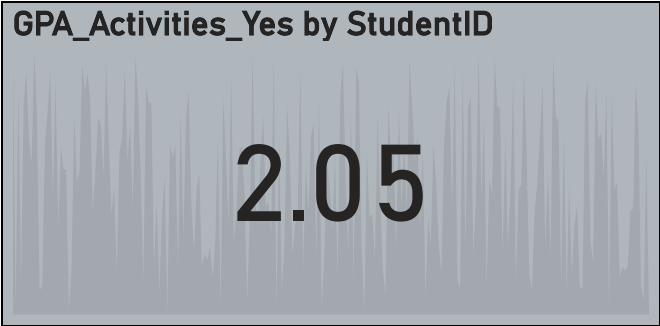


Summary

Sum of GPA for No (770.64) was higher than Yes (721.94).

No accounted for 51.63% of Sum of GPA.

Extracurricular activities, seem to correlate slightly negatively with GPA



Major-wise Academic Performance



GPA Distribution



Study Hour VS GPA



Attendance VS GPA



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At Risk Students



Success Prediction

Gender

All

Major

All

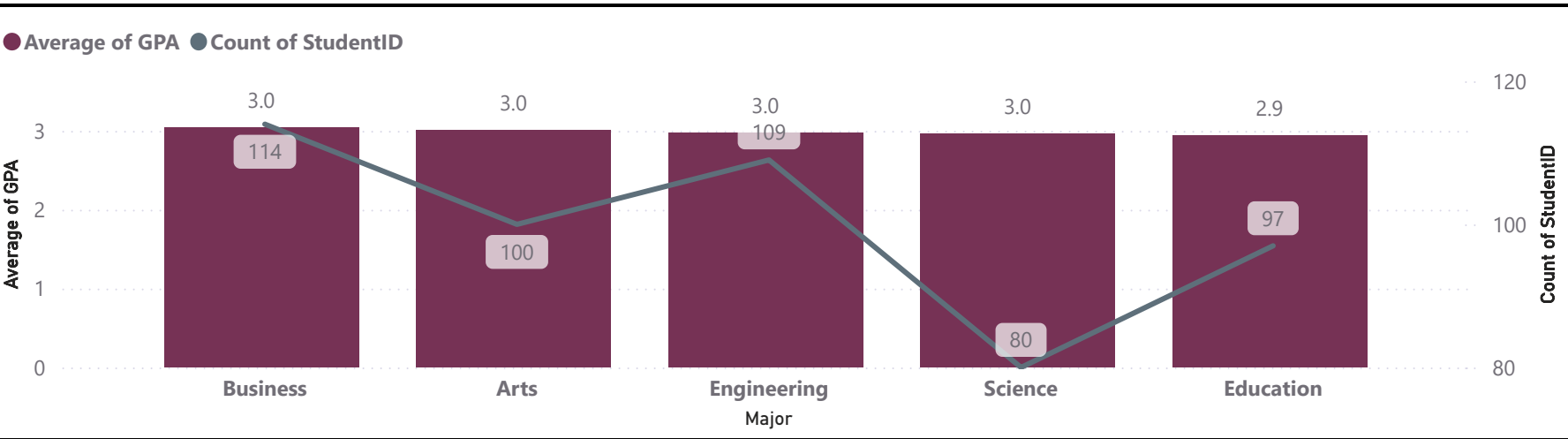
ExtraCurricula...

All

PartTimeJob

All

Average of GPA and Count of StudentID by Major



Average of GPA by Major

2.96

Business
(GPA: 3.04)

TopMajorPerformance

Summary

At 3.04, Business had the highest Average of GPA and was 3.30% higher than Education, which had the lowest Average of GPA at 2.94.

Average of GPA and total Count of StudentID are positively correlated with each other.

Gender-based Academic Insights

GPA Distribution

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Gender

All

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All

ExtraCurricula...

All

PartTimeJob

All

Average of GPA, Average of AttendanceRate and Average of StudyHoursPerWeek by Gender

Average of GPA

Average of AttendanceRate

Average of StudyHoursPerWeek

Gender	Average of GPA	Average of AttendanceRate	Average of StudyHoursPerWeek
Female	19.72	74.01	2.97
Male	20.02	75.93	3.00

74.01

Attendance_Male

75.93

Attendance_Female

19.72

Study_Male

2.97

GPA_Male

20.02

Study_Female

3.00

GPA_Female

Summary

Average of GPA and total Average of AttendanceRate are positively correlated with each other.

Male had 2.97 Average of GPA, 74.01 Average of AttendanceRate, and 19.72 Average of StudyHoursPerWeek. Female had 3.00 Average of GPA, 75.93 Average of AttendanceRate, and 20.02 Average of StudyHoursPerWeek.

Gender-based trends show that female students slightly

At-Risk Student Identification



GPA Distribution



Study Hour VS GPA



Attendance VS GPA



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At Risk Students



Success Prediction

Gender

All

Major

All

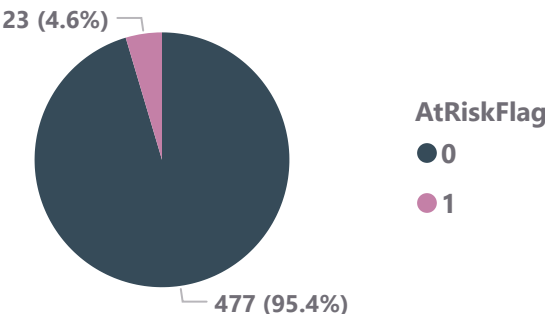
ExtraCurricula...

All

PartTimeJob

All

Count of StudentID by AtRiskFlag



StudentID Major StudyHoursPerWeek AtRiskFlag

1	Arts	37	0
2	Education	37	0
3	Business	10	0
4	Science	10	0
5	Education	19	0
6	Business	17	0
7	Arts	21	0
Total			

0.05
% At Risk

23
Sum of AtRiskFlag

500
Total Students

Summary

Count of StudentID for 0 (477) was higher than 1 (23).

0 accounted for 95.40% of Count of StudentID.

The dashboard flags 4.6% of students as 'At Risk' based on GPA and other factors.

Student Success Prediction Score



GPA Distribution

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Major

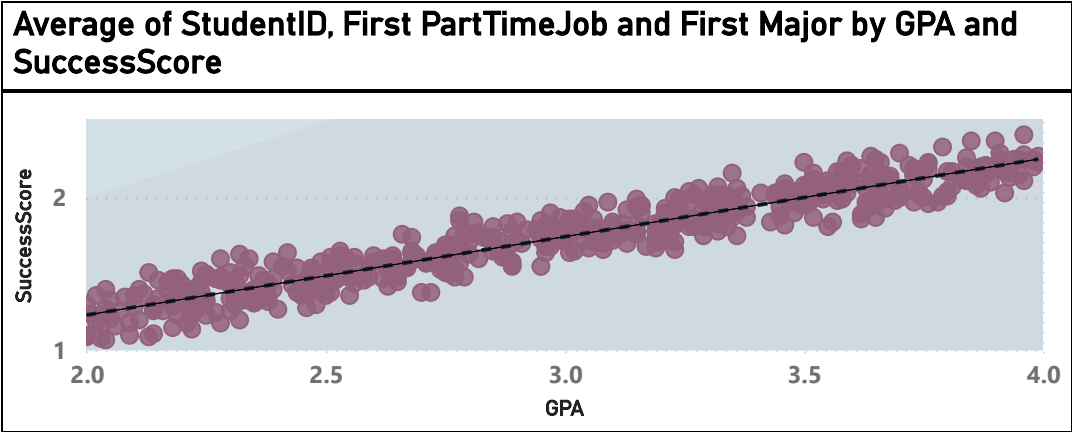
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ExtraCurricula...

All

PartTimeJob

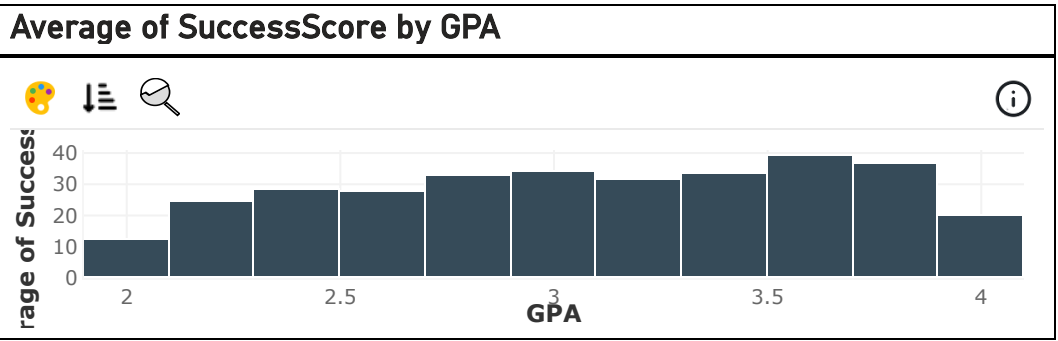
All



StudentID	Major	SuccessScore
1	Arts	2.00
2	Education	1.49
3	Business	1.35
4	Science	1.82
5	Education	1.30
6	Business	1.20
Total		

Students who need Counseling

StudentID	SuccessScore	Sum of NeedsSu
2	1.49	
3	1.35	
5	1.30	
Total		



1.74

Average of SuccessScore

132

Sum of NeedsSupport

Summary

Average success Score is : 1.74

132 Students need Counselling.



SUMMARY



- The average GPA across all students is 2.99, with a minimum of 2.00 and a maximum of 3.99.
- Business majors had the highest average GPA, while Education had the lowest.
- Students who studied 5–10 hours per week achieved the highest average GPA of 3.07.
- Students with 70–79% attendance had the highest average GPA of 3.05.
- Students with part-time jobs had a slightly higher GPA (3.01) compared to those without (2.96).
- Participation in extracurricular activities was associated with a slightly lower average GPA.
- Female students had a marginally higher GPA (3.00) than male students (2.97).
- A total of 132 students were identified as needing counseling based on their success prediction

