

# Mini project

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StudentsPerformance.csv

70.3KB



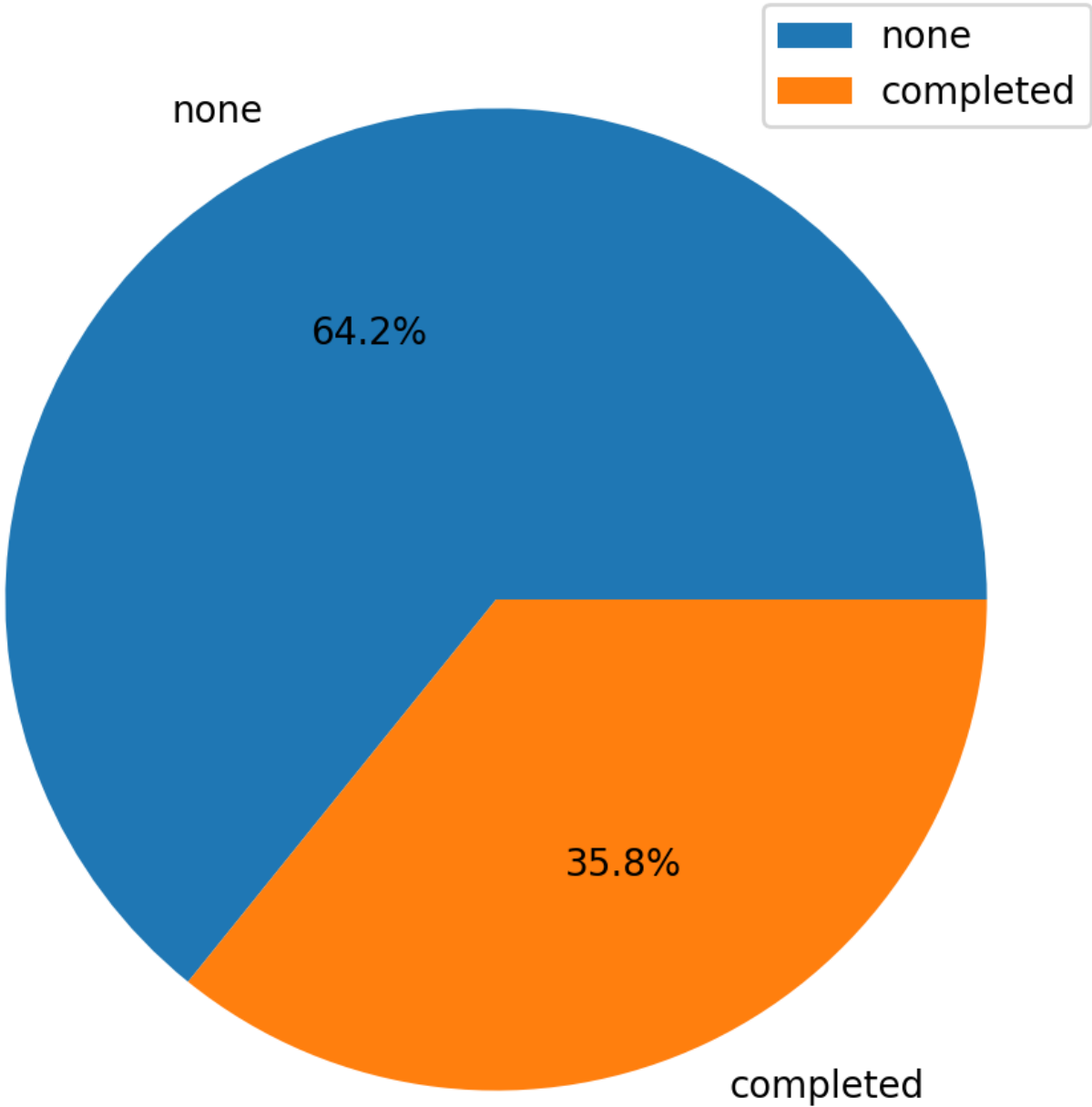
## Student Performance Dataset

	gender	race/ethnicity	parental level of education	lunch	test prepara	math	read	writi
0	female	group B	bachelor's degree	standard	none	72	72	74
1	female	group C	some college	standard	completed	69	90	88
2	female	group B	master's degree	standard	none	90	95	93
3	male	group A	associate's degree	free/reduced	none	47	57	44
4	male	group C	some college	standard	none	76	78	75
5	female	group B	associate's degree	standard	none	71	83	78
6	female	group B	some college	standard	completed	88	95	92
7	male	group B	some college	free/reduced	none	40	43	39
8	male	group D	high school	free/reduced	completed	64	64	67
9	female	group B	high school	free/reduced	none	38	60	50

## Updated Dataset

	gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score
0	0	1	0	standard	none	72	72	74
1	0	2	1	standard	completed	69	90	88
2	0	1	2	standard	none	90	95	93
3	1	0	3	free/reduced	none	47	57	44
4	1	2	1	standard	none	76	78	75
5	0	1	3	standard	none	71	83	78
6	0	1	1	standard	completed	88	95	92
7	1	1	1	free/reduced	none	40	43	39
8	1	3	4	free/reduced	completed	64	64	67
9	0	1	4	free/reduced	none	38	60	50

How many student taking test preperation course :



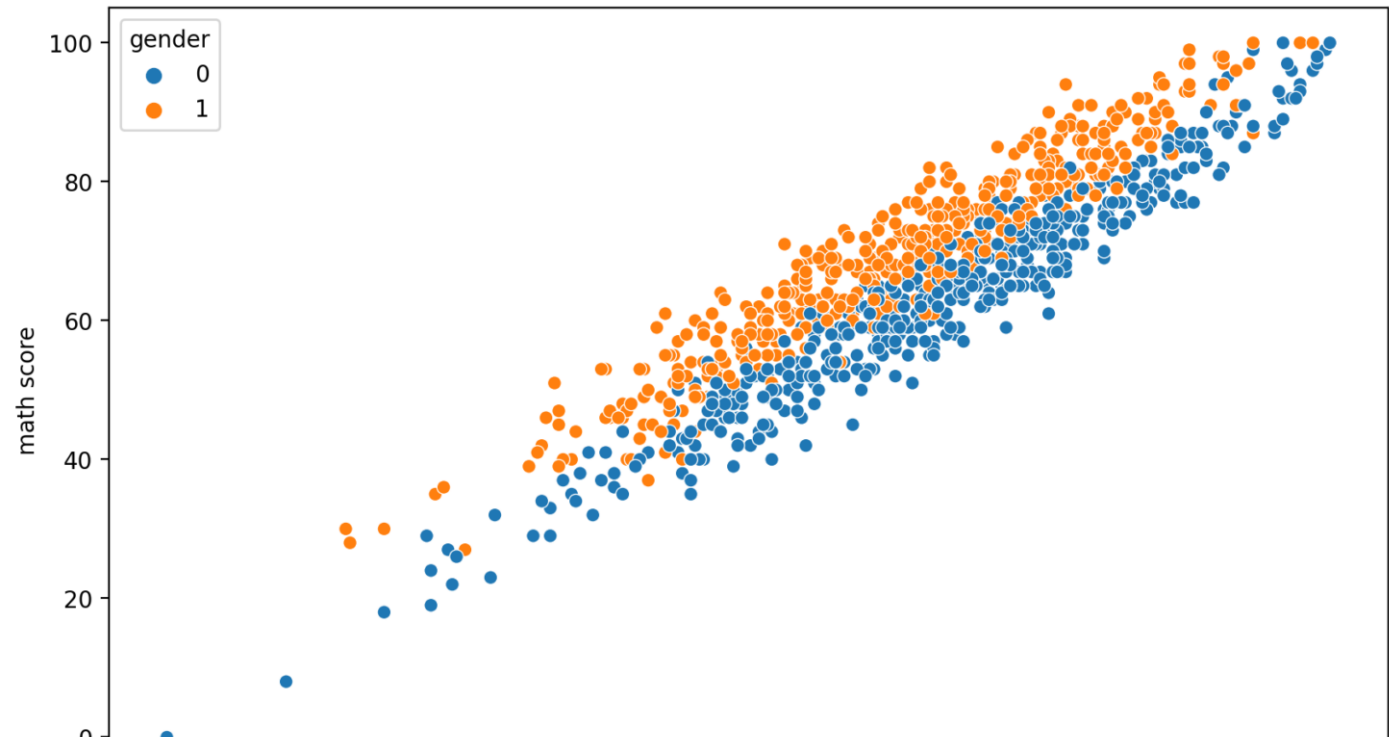
	gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score	average score
0	0	1	0	standard	none	72	72	74	72.6667
1	0	2	1	standard	completed	69	90	88	82.3333
2	0	1	2	standard	none	90	95	93	92.6667
3	1	0	3	free/reduced	none	47	57	44	49.3333
4	1	2	1	standard	none	76	78	75	76.3333
5	0	1	3	standard	none	71	83	78	77.3333
6	0	1	1	standard	completed	88	95	92	91.6667
7	1	1	1	free/reduced	none	40	43	39	40.6667
8	1	3	4	free/reduced	completed	64	64	67	65.0000
9	0	1	4	free/reduced	none	38	60	50	49.3333

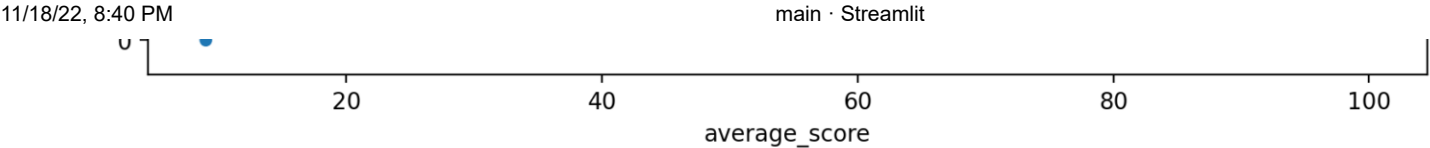
# Student performance in subject based on gender :

1 : Male

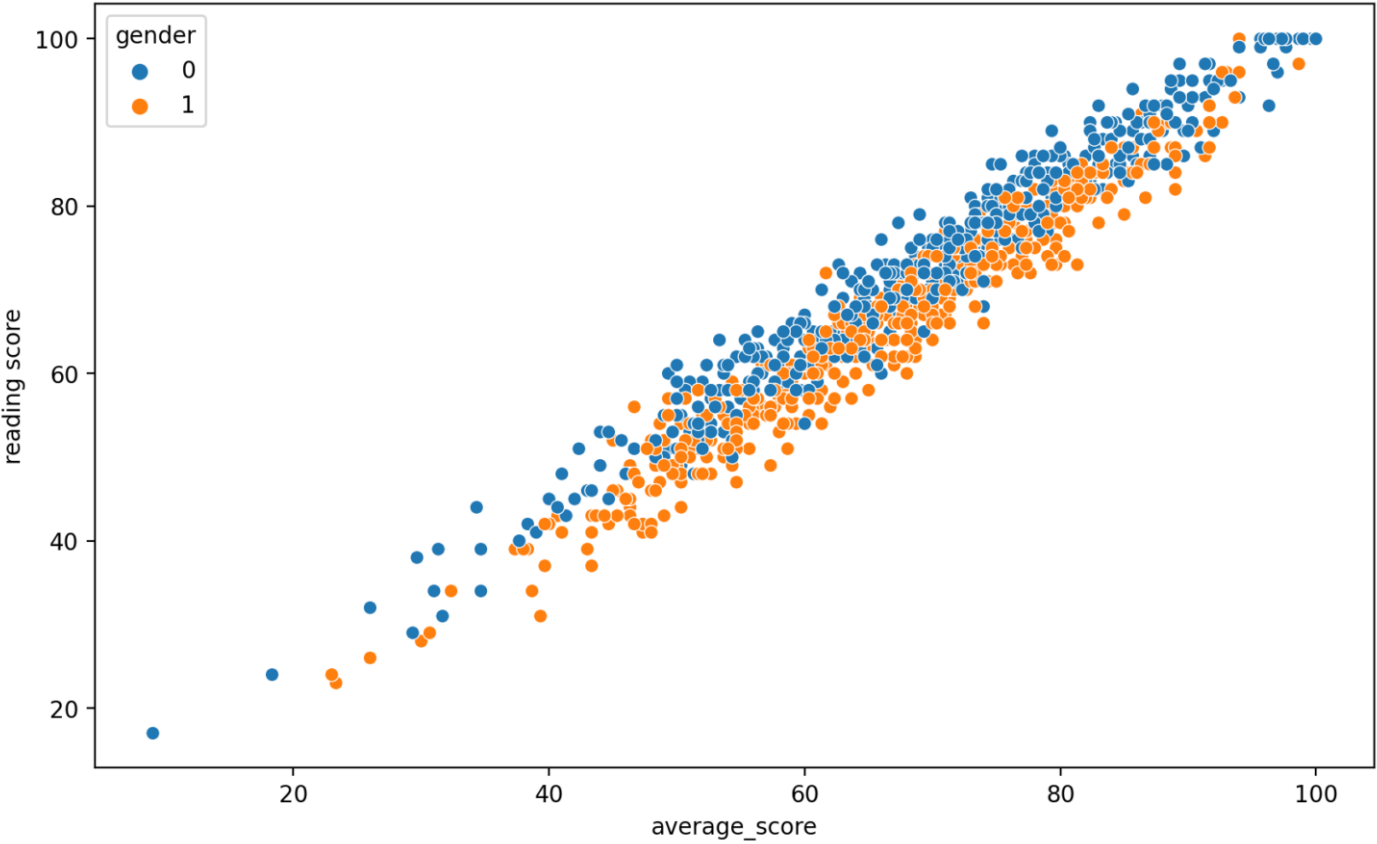
0 : Female

Average score Vs Math score

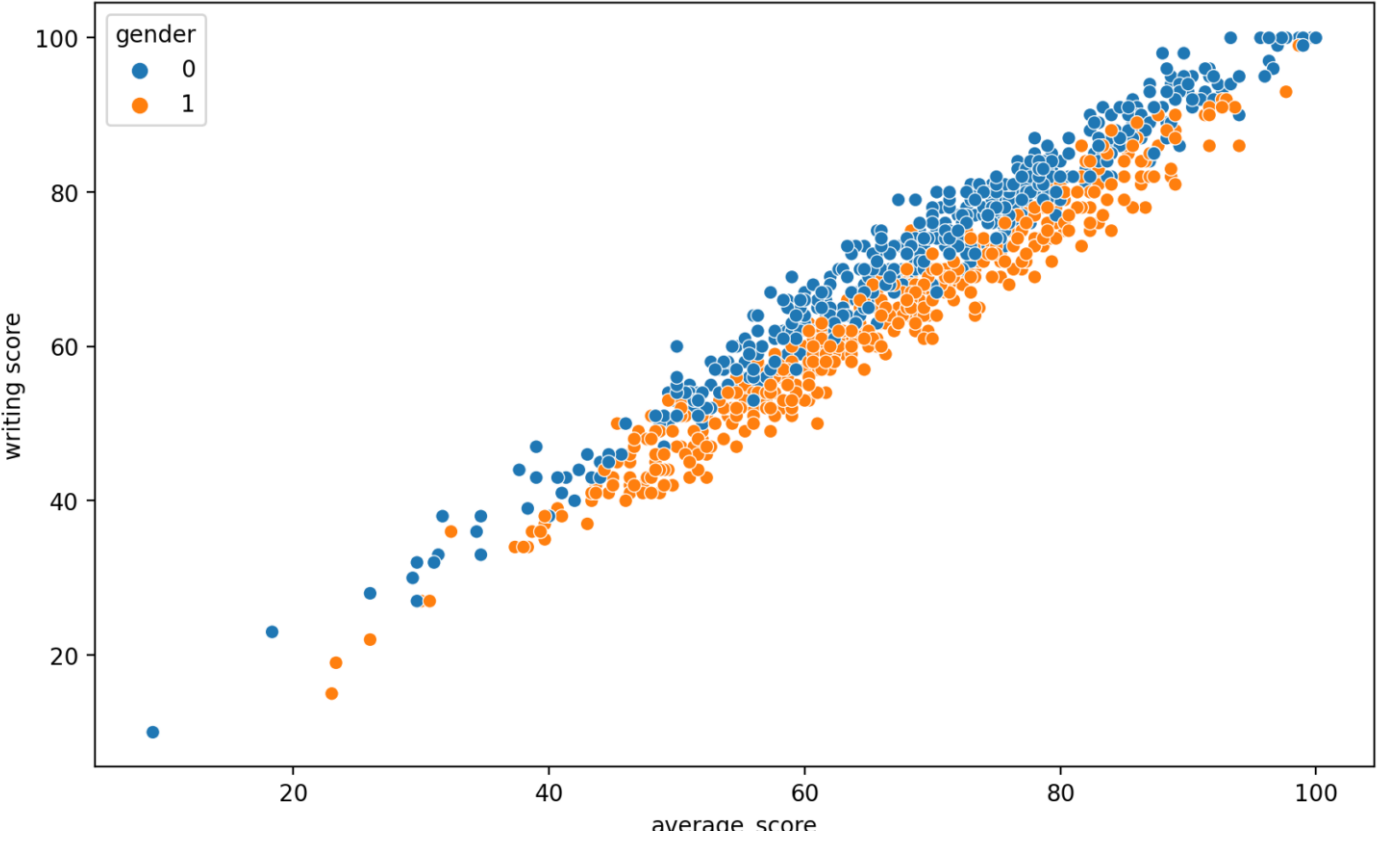




Average score Vs Reading score



Average score Vs Writeing score



# Building Regression model to predict average score of Student

Training Dataset :

	0	1	2	3	4	5	6	7
0	1	3	2	80	80	72	1	1
1	0	1	0	77	85	87	0	1
2	0	2	1	73	80	82	1	1
3	0	1	0	75	84	80	1	1
4	1	1	3	44	41	38	0	1
5	0	4	5	72	79	77	0	1
6	0	3	3	43	60	58	0	1
7	0	2	1	84	87	91	1	1
8	1	3	4	69	70	67	0	1
9	0	3	3	75	90	88	0	0

Testing Dataset :

	0	1	2	3	4	5	6	7
0	0	3	0	62	72	74	0	1
1	1	2	3	87	73	72	0	1
2	1	2	4	40	46	50	0	0
3	1	3	1	77	62	64	0	1
4	0	2	1	69	78	76	1	1
5	1	2	5	78	72	69	1	0
6	0	2	0	67	69	75	1	1
7	1	2	3	46	43	42	1	1
8	1	4	1	99	87	81	1	0
9	1	3	4	46	34	36	1	1

Prediction of Average score of test dataset :

	0
0	69.0300
1	77.0367
2	45.0433
3	68.1733
4	74.1200
5	72.7500
6	69.9600
7	44.1367
8	87.2233
9	38.1467

Acurracy of model : 0.9974286108694329

Select attributed to predict average score of student

Select Gender

- Male
- Female

Select RACE/ETHNICITY

- group A
- group B
- group C
- group D
- group E

Enter Math Score

74

Enter Reading Score

74

Enter Writing Score

74

Parental Level of Education

- Some High school
- High school
- Associate's Degree
- Master's Degree
- Some college
- Bachelor's Degree

Lunch

- Standard
- Free/Reduced

TEST PREPARATION COURSE

- None
- Completed

predicted Average :

	0
0	74.0400