

■ Student Performance Report

Generated using Python, pandas, matplotlib & ReportLab

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Internship: CodTech Technologies - Python Internship

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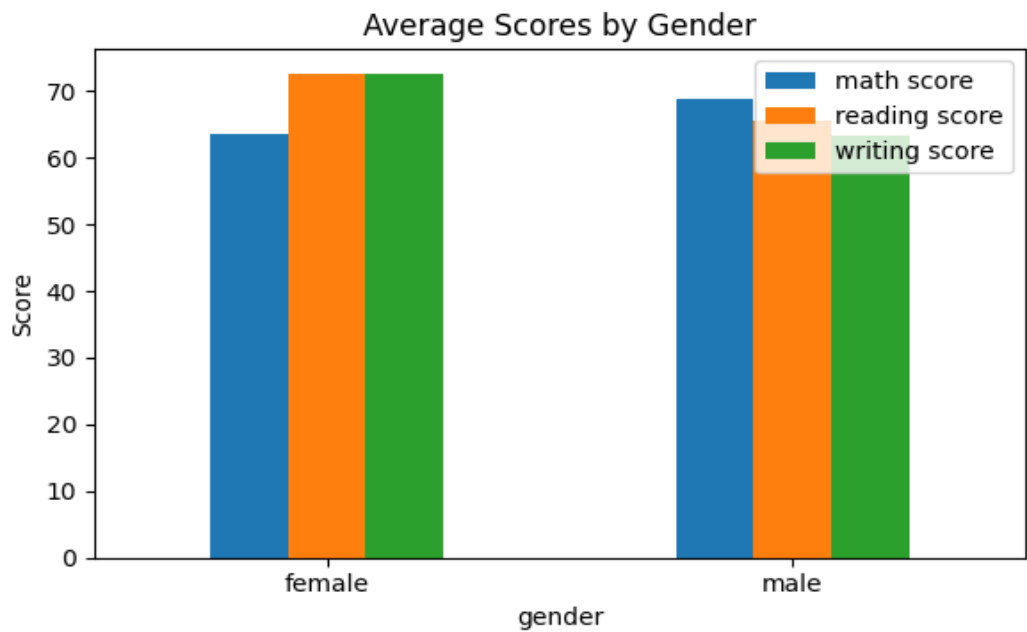
1. Key Insights

- ✓■ Female students scored higher in reading and writing.
- ✓■ Completing test preparation improves all subject scores.
- ✓■ Math scores vary more widely than reading/writing.
- ✓■ Higher parental education levels tend to correlate with better scores.
- ✓■ Majority of students did not complete test preparation.

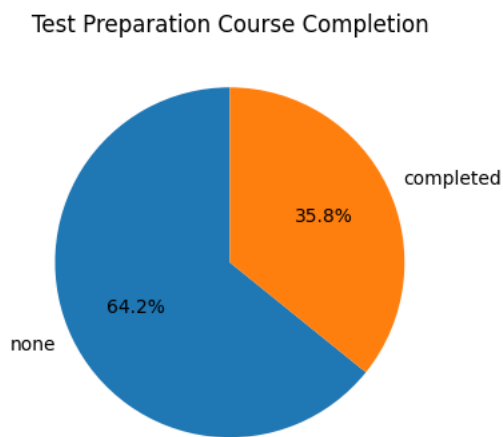
2. Average Scores by Gender

Female → Math: 63.6, Reading: 72.6, Writing: 72.5

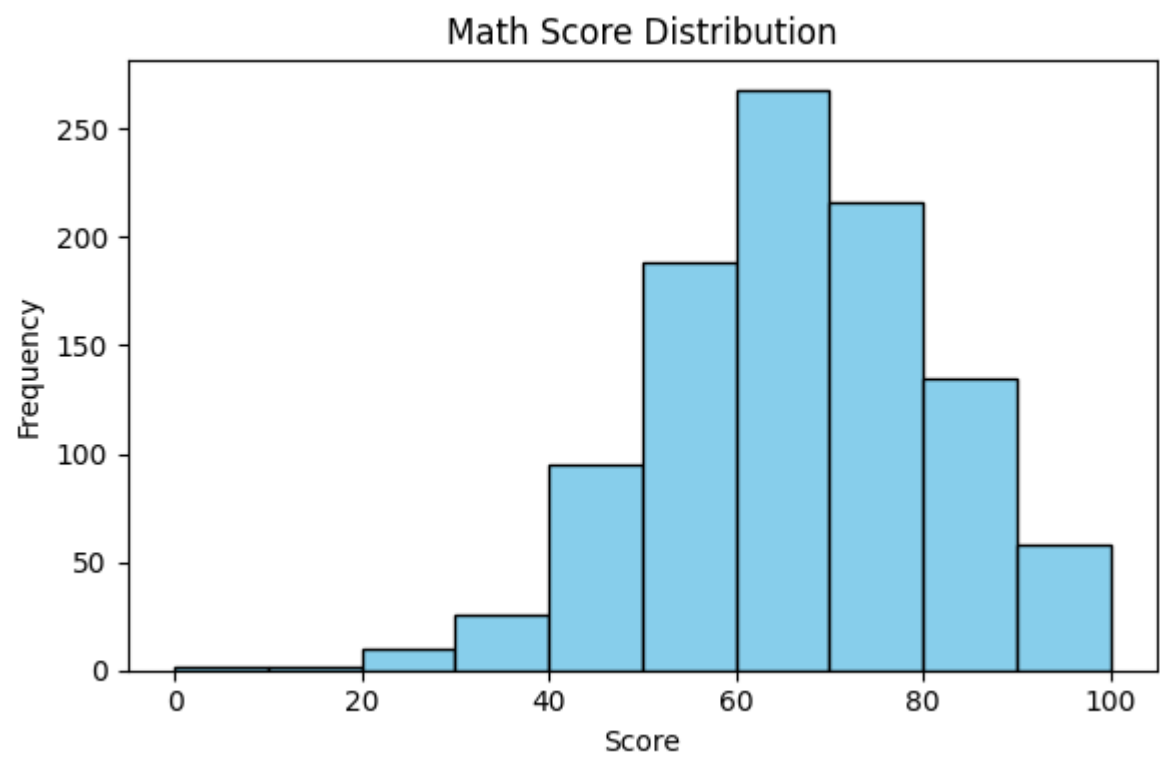
Male →



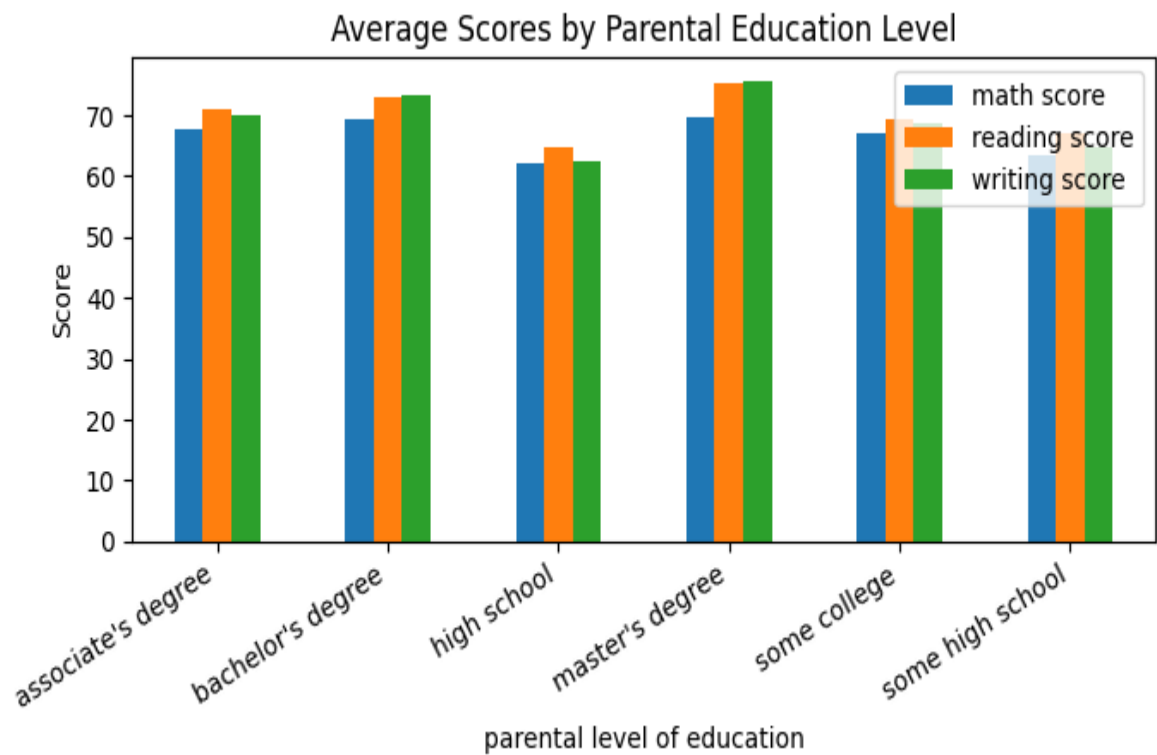
3. Test Preparation Course Completion



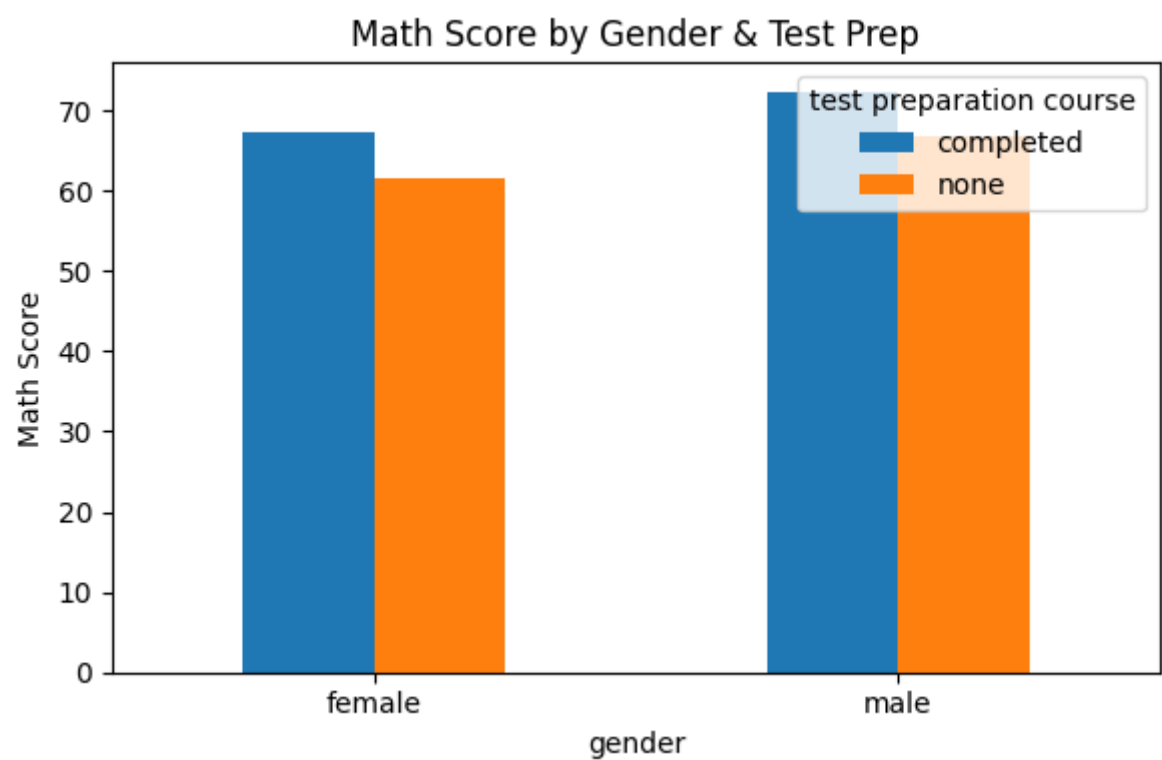
4. Math Score Distribution



5. Scores by Parental Education Level



6. Gender-wise Test Prep Impact on Math Score



7. Summary Statistics

MATH SCORE
Mean: 66.09
Std: 15.16
Min: 0.00
Max: 100.00

READING SCORE
Mean: 69.17
Std: 14.60
Min: 17.00
Max: 100.00

WRITING SCORE
Mean: 68.05
Std: 15.20
Min: 10.00
Max: 100.00