🚀 *Powerful EDA Report*

K-12 Dataset

Generated by Divyanshu (28-Apr-2025)

 Dataset Information

Dataset Shape: (6443, 20)
Columns: Name, Age, Gender, Country, State, City, Parental_Education_Level, Earning Class, Level, Course Name, Course Level, Material Level, Previous_Scores, Assesment Score, IQ, Attendance, Material Name, recommended_material, Study Time, promoted

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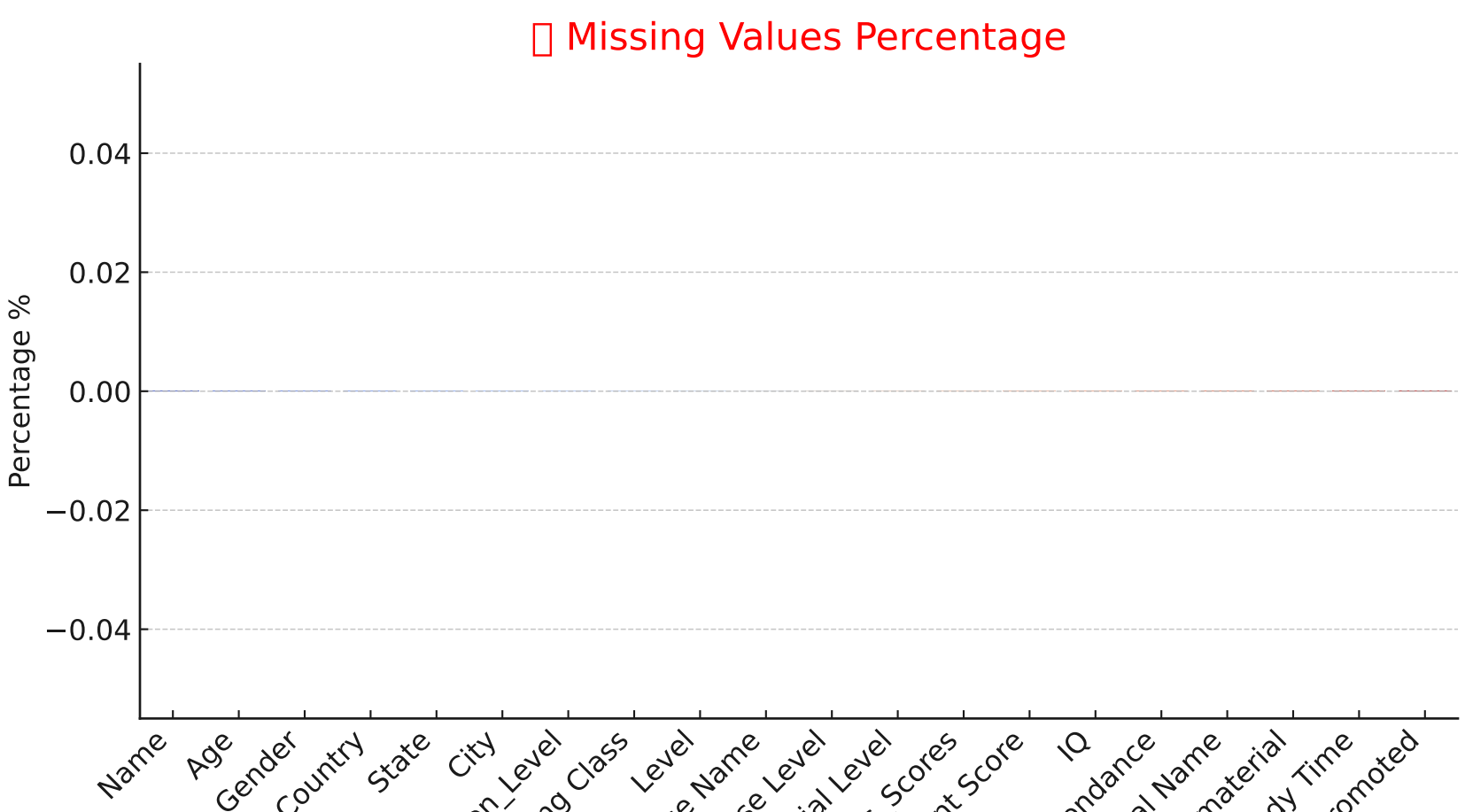
Data Types Summary:

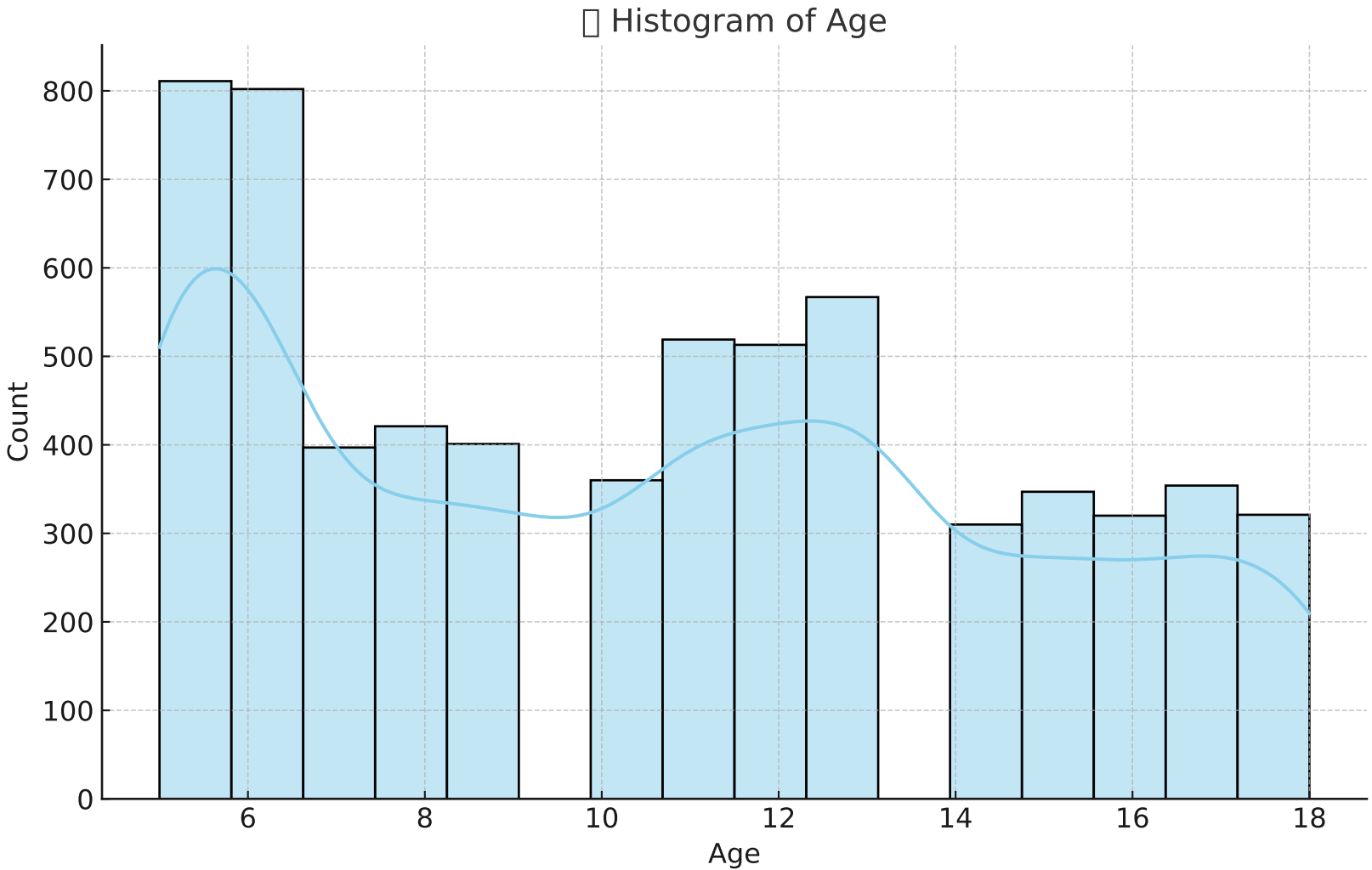
Name	object
Age	int64
Gender	object
Country	object
State	object
City	object
Parental_Education_Level	object
Earning Class	object
Level	object
Course Name	object
Course Level	object
Material Level	object
Previous_Scores	int64
Assesment Score	int64
IQ	float64
Attendance	int64
Material Name	object
recommended_material	object
Study Time	float64
promoted	object

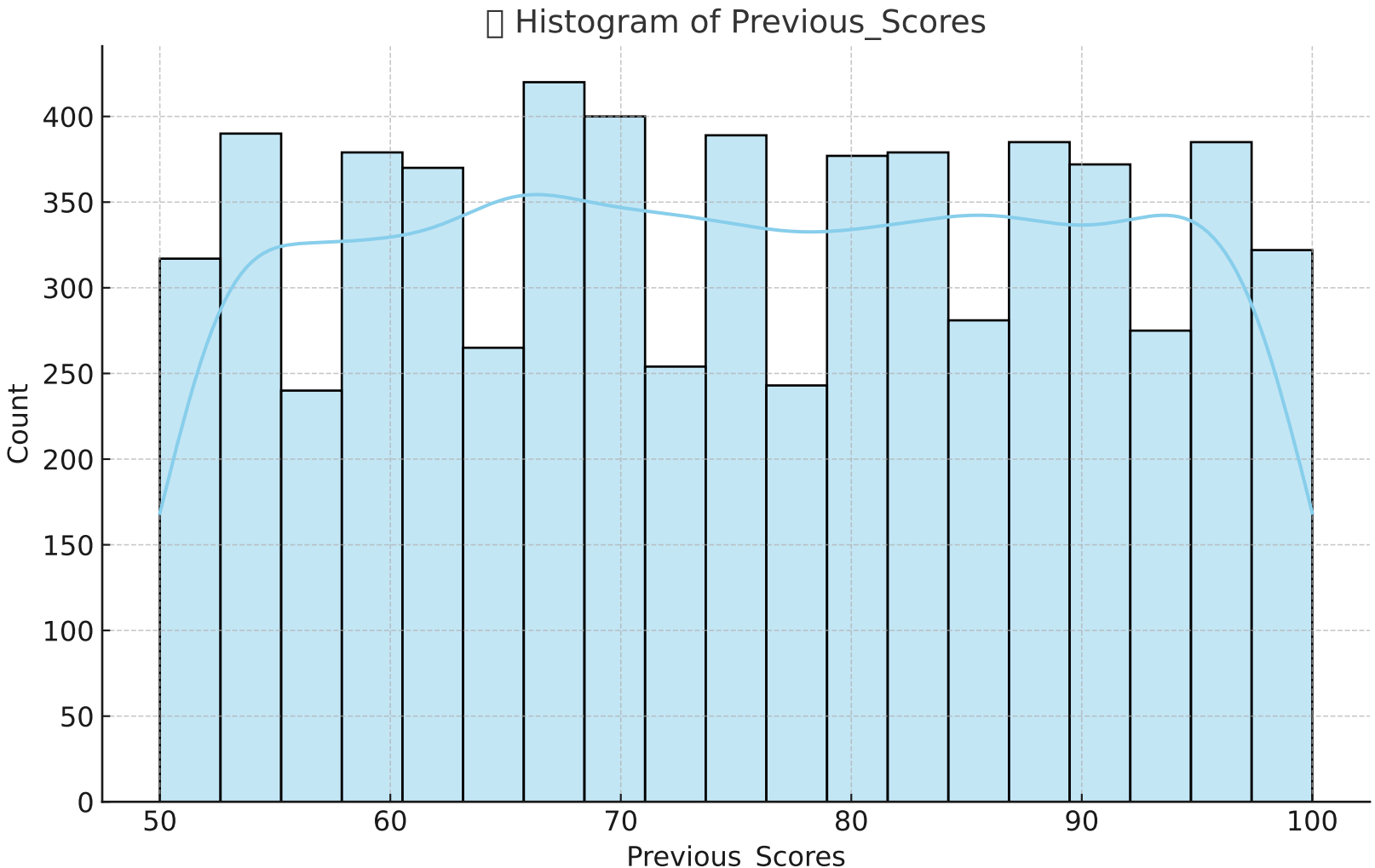
📊 Dataset Describe Statistics

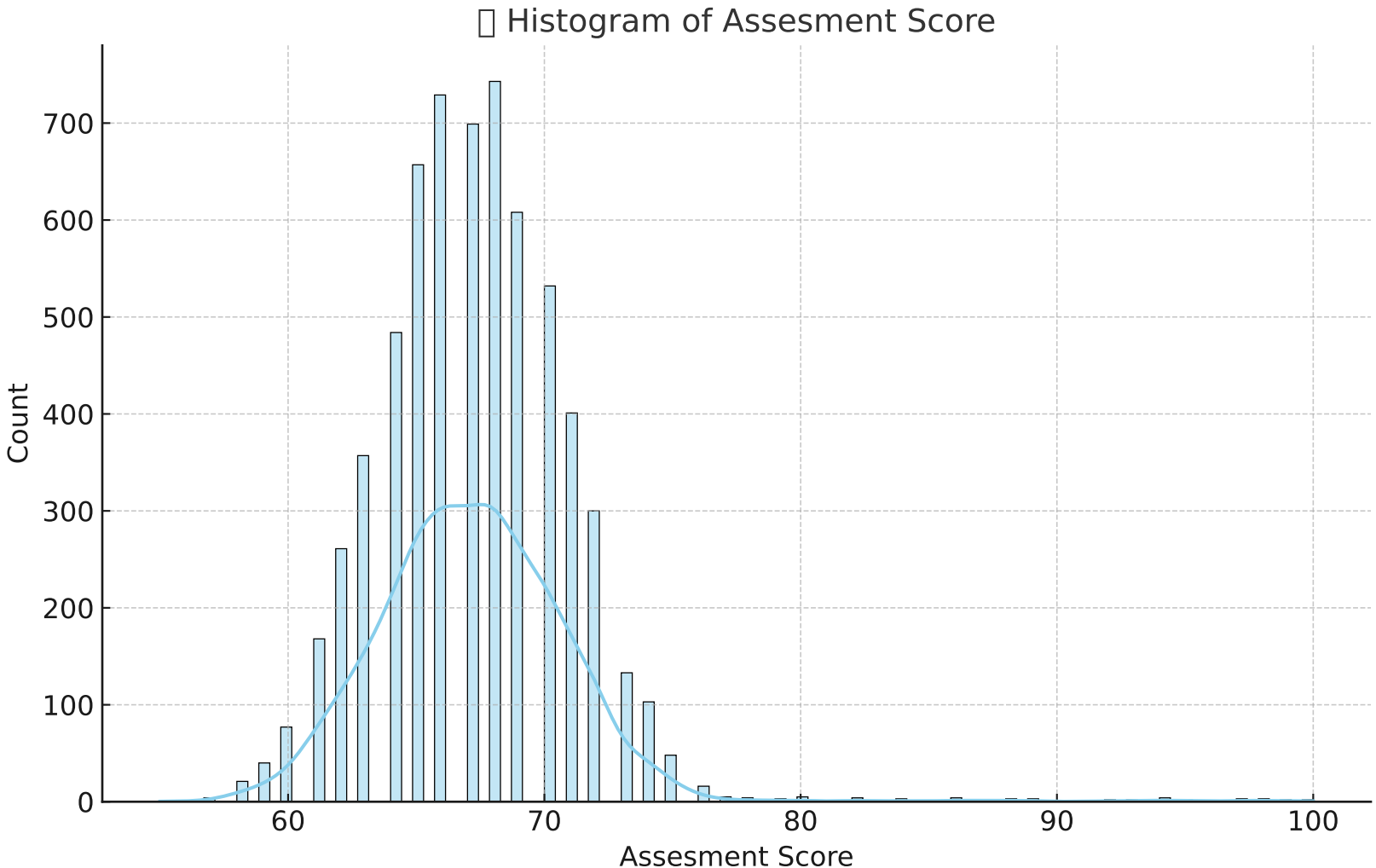
	Age	Previous_Scores	Assesment Score	IQ	Attendance	Study Time
count	6443.0	6443.0	6443.0	6443.0	6443.0	6443.0
mean	10.54	75.07	67.24	94.3	80.0	2.87
std	4.09	14.41	3.91	7.9	11.55	0.63
min	5.0	50.0	55.0	75.15	60.0	1.0
25%	6.0	63.0	65.0	88.2	70.0	2.42
50%	11.0	75.0	67.0	94.5	80.0	2.86
75%	14.0	88.0	69.0	100.35	90.0	3.32
max	18.0	100.0	100.0	132.75	100.0	5.0

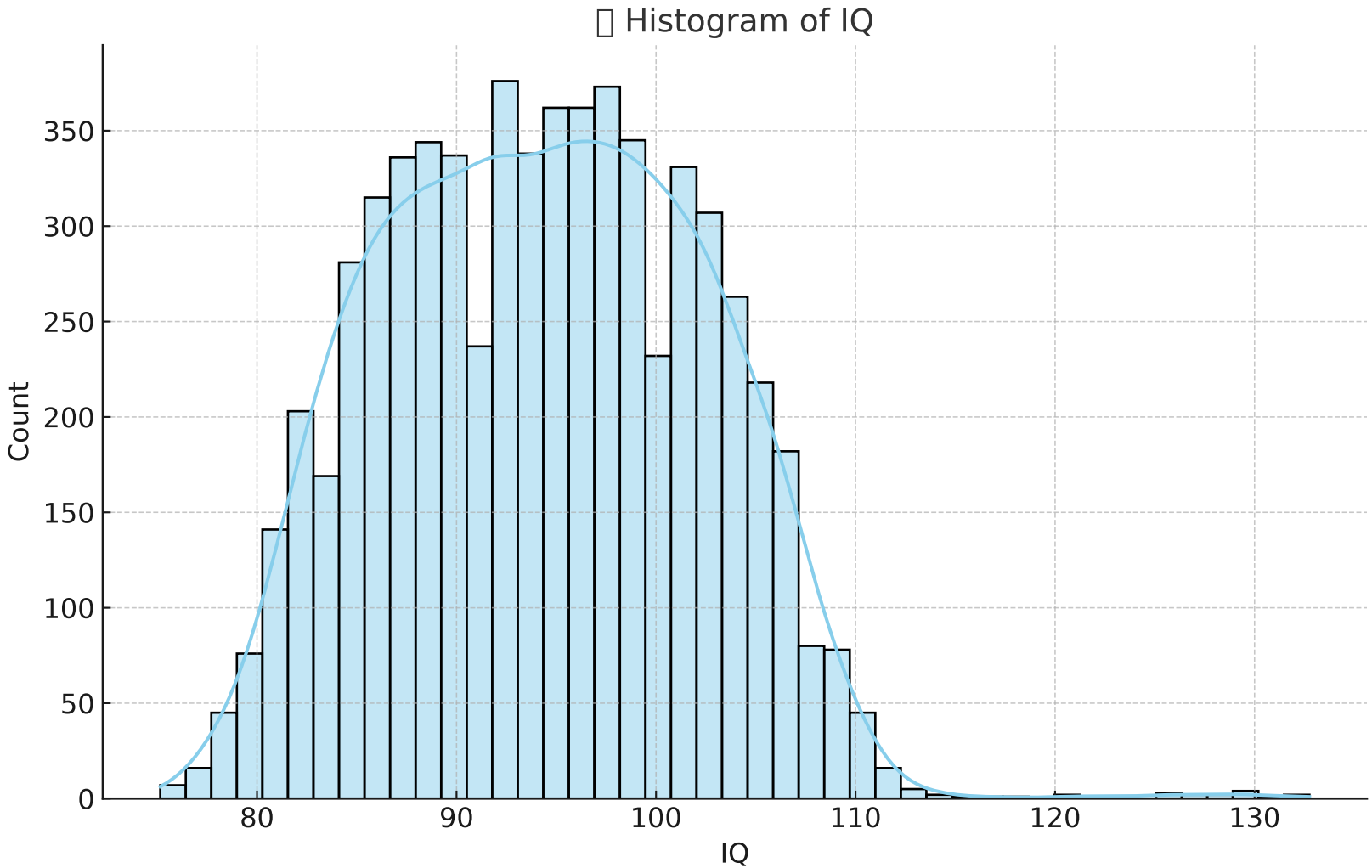

Missing Values Percentage
Percentage %
0.04
0.02
0.00
−0.02
−0.04
Name
Age
Gender
Country
State
City
Level
IQ

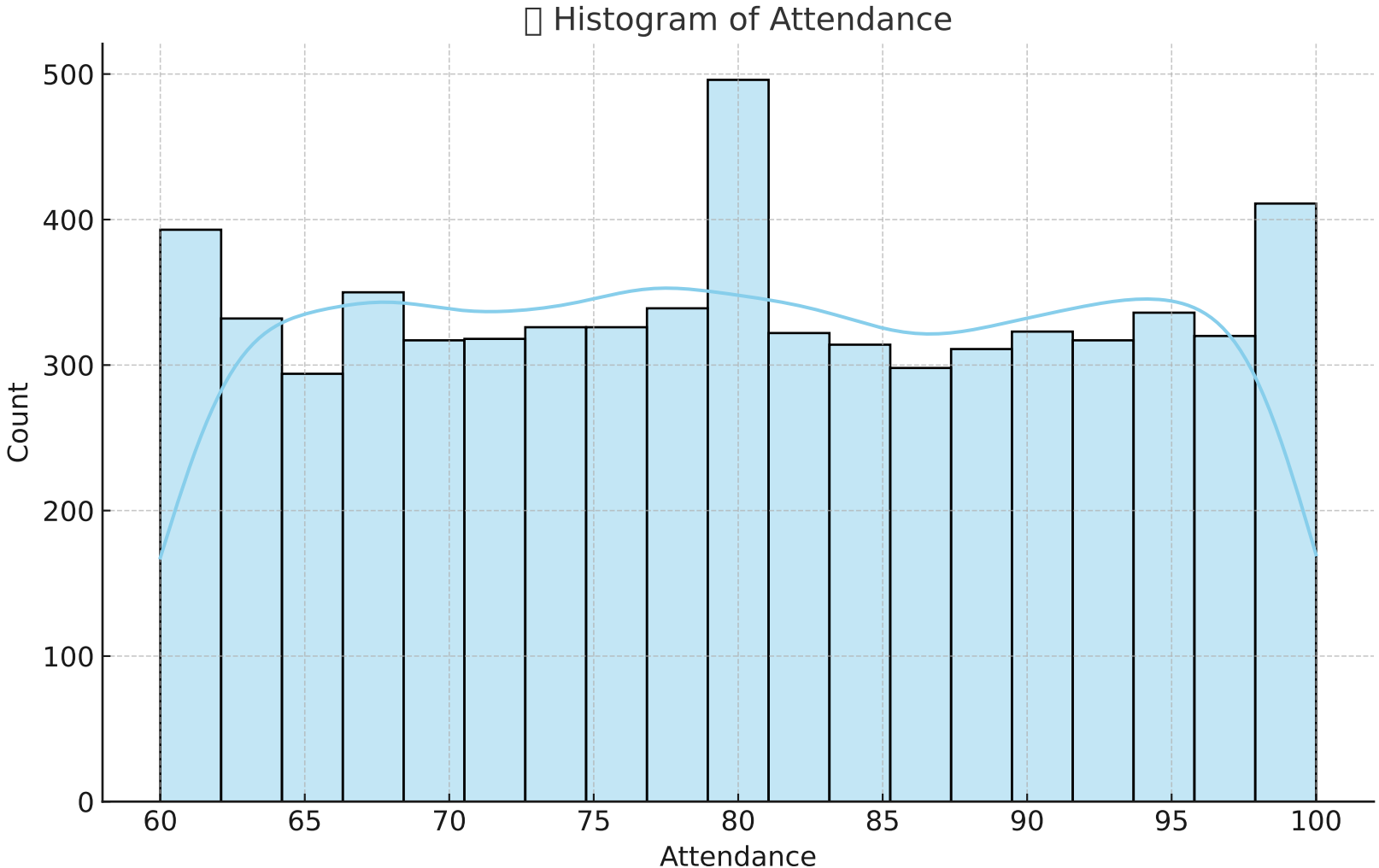
✅ *Duplicate Records: 0*

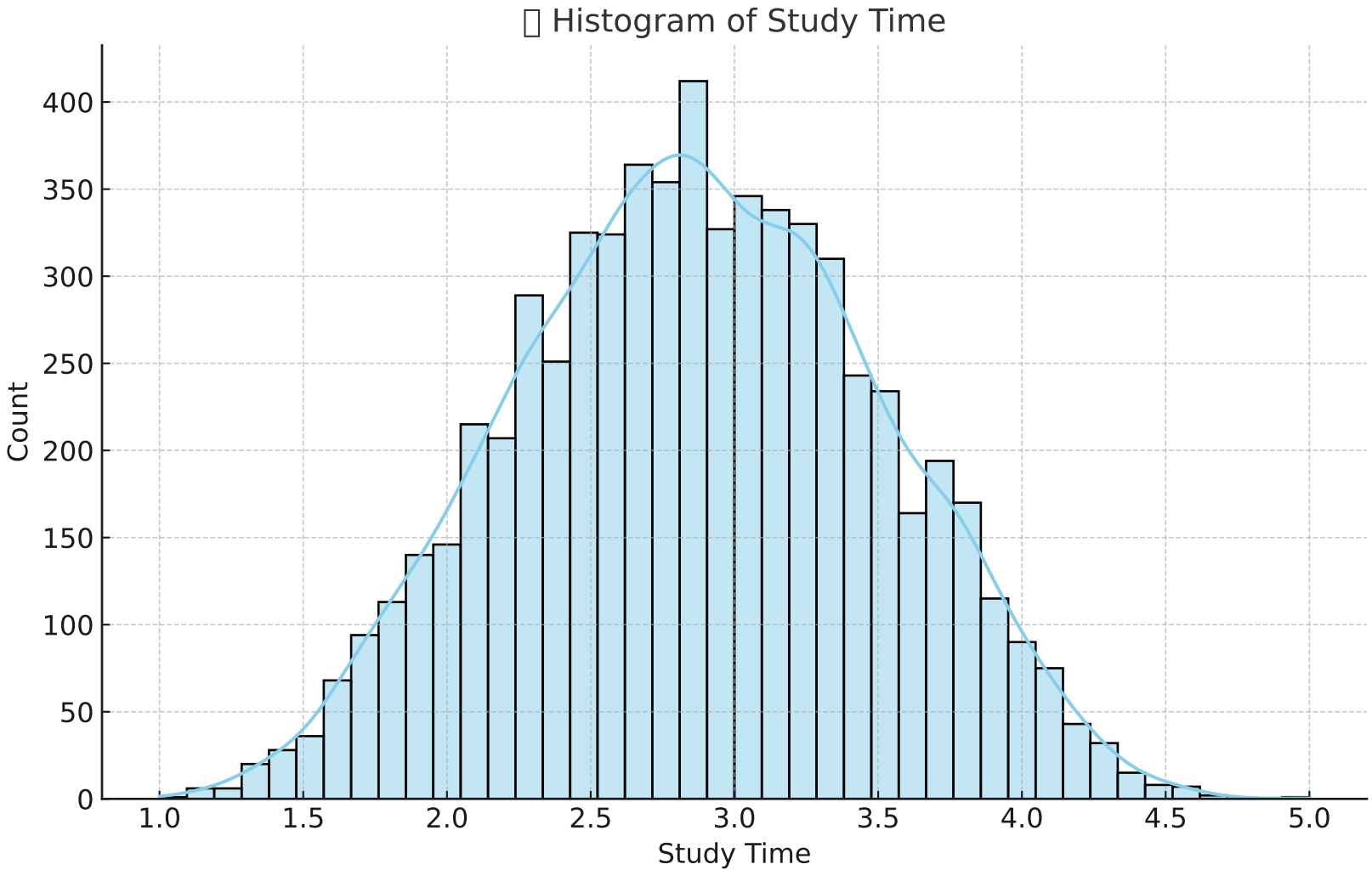

Histogram of Age
Count
Age
0
100
200
300
400
500
600
700
800
6
8
10
12
14
16
18

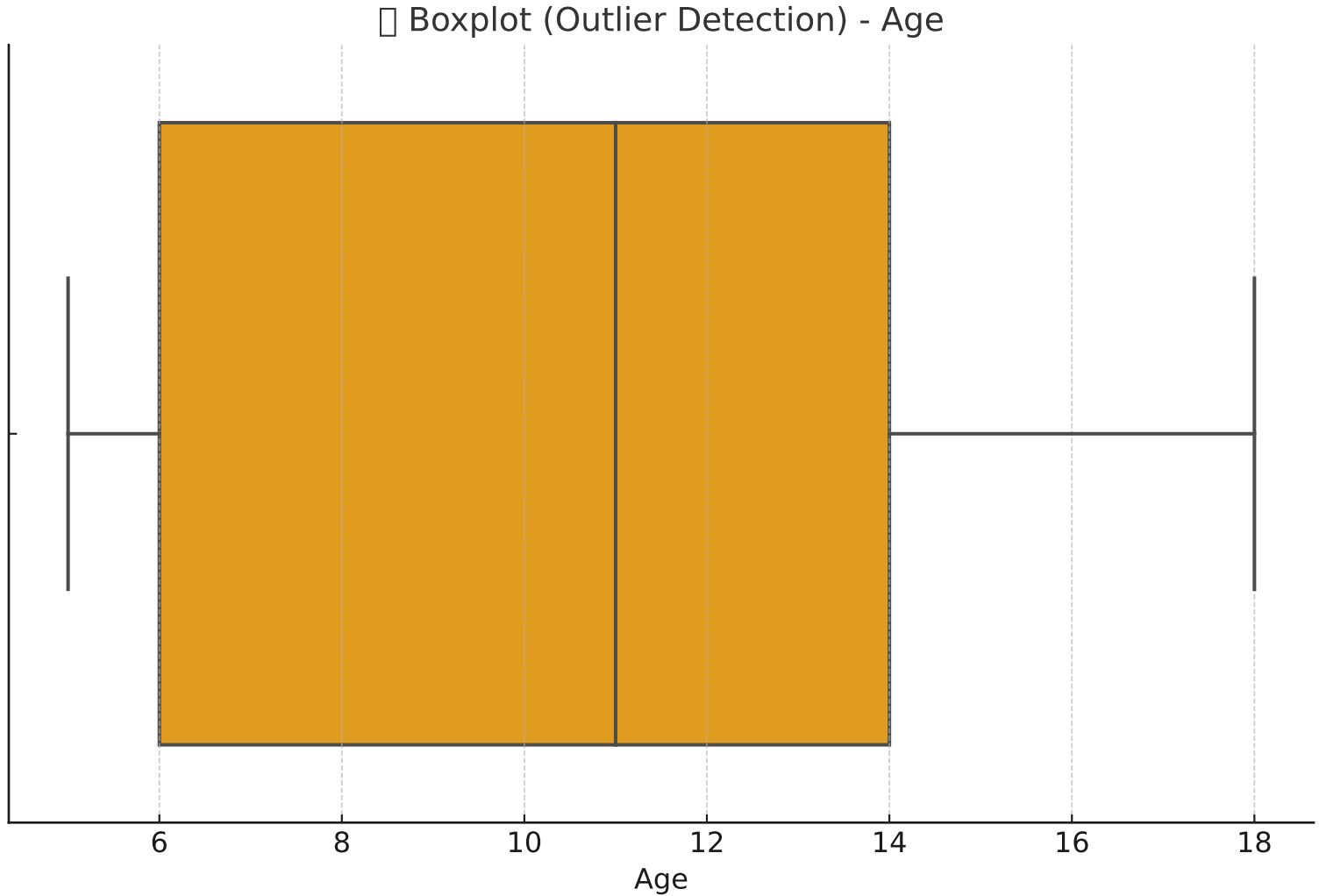

Histogram of Previous_Scores
Count
Previous_Scores
0
50
100
150
200
250
300
350
400
50
60
70
80
90
100

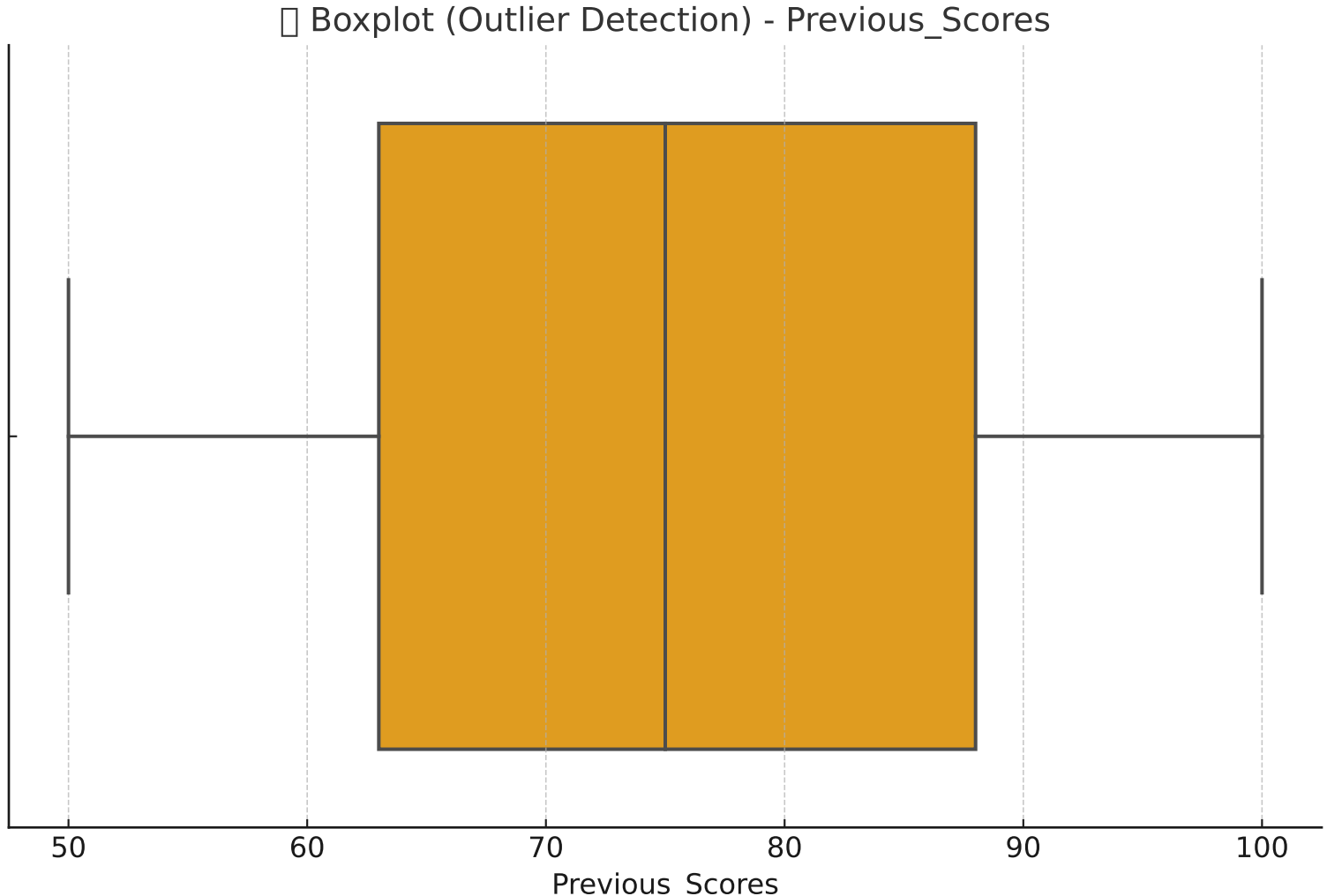

Histogram of Assesment Score
Count
0
100
200
300
400
500
600
700
60
70
80
90
100
Assesment Score

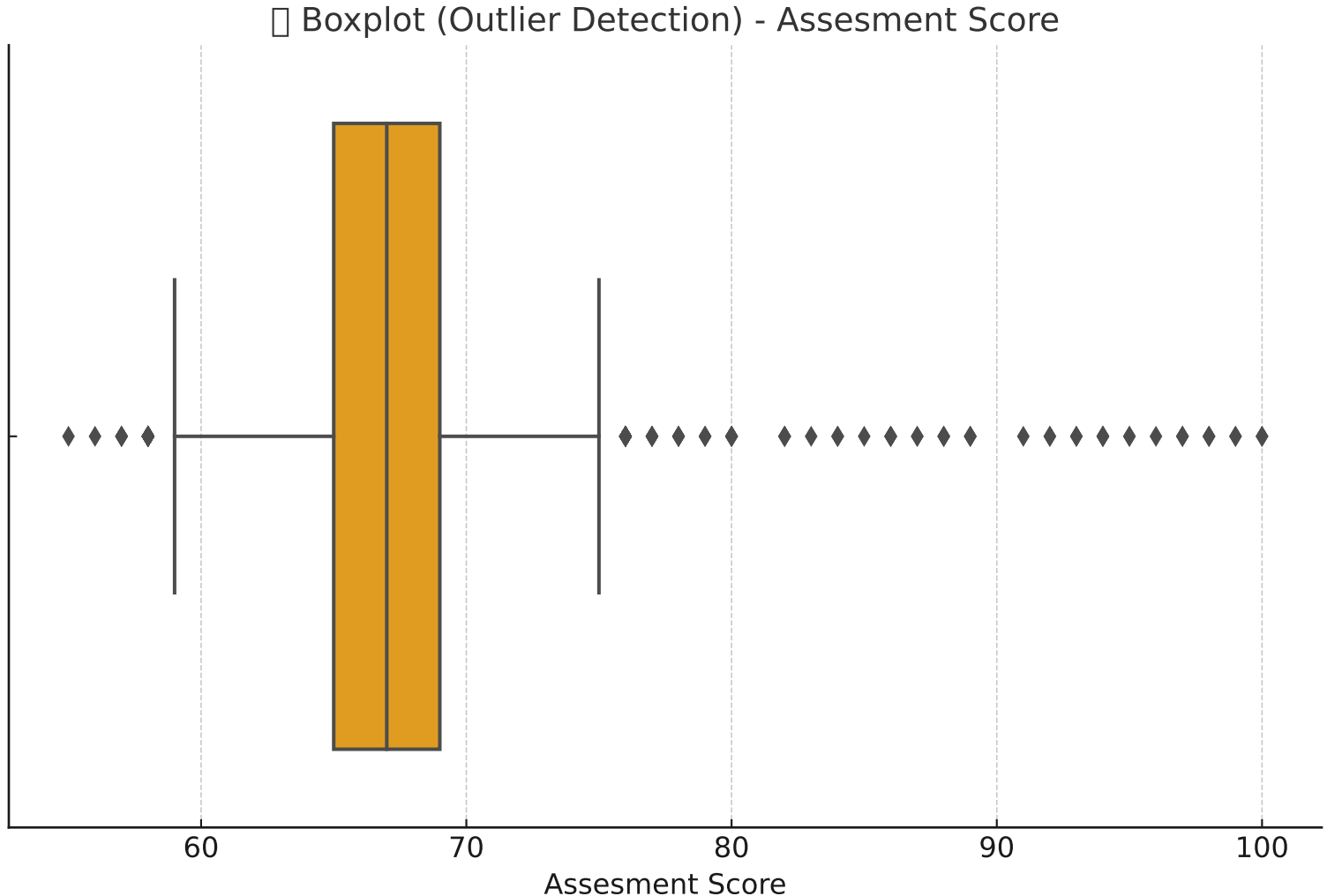

Histogram of IQ
Count
IQ
0
50
100
150
200
250
300
350
80
90
100
110
120
130

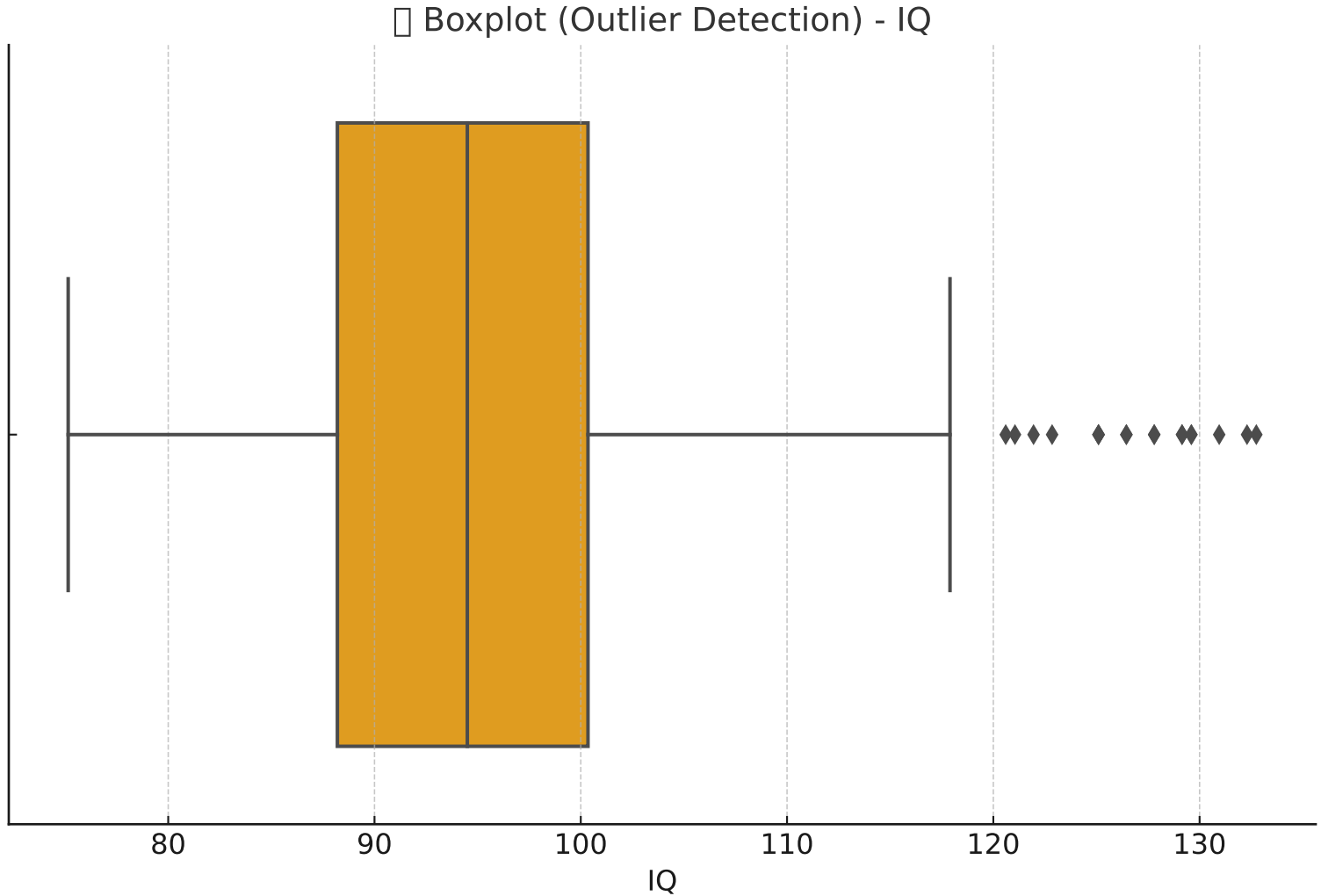

Histogram of Attendance
Count
Attendance
0
100
200
300
400
500
60
65
70
75
80
85
90
95
100

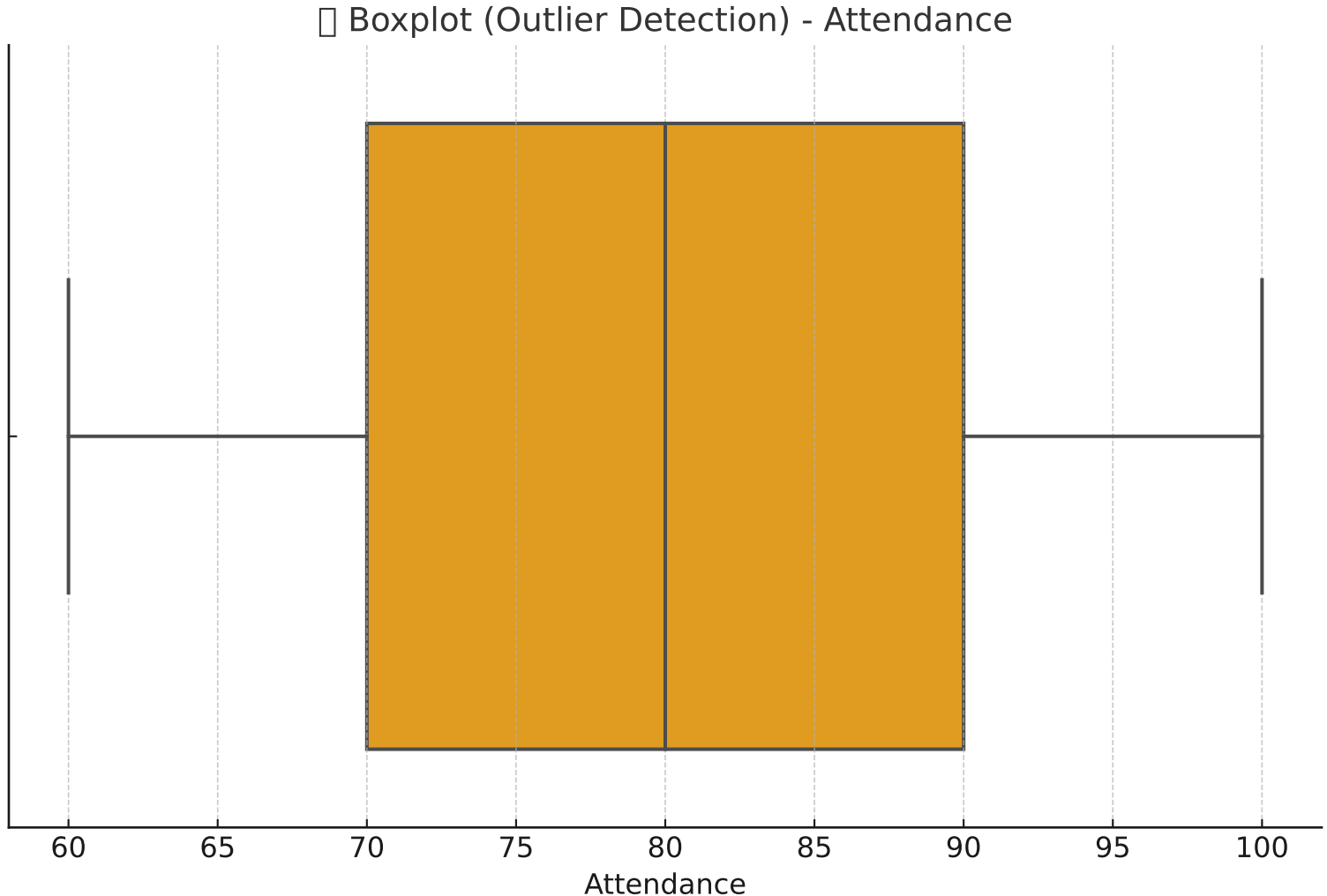

Histogram of Study Time
Count
Study Time
0
50
100
150
200
250
300
350
400
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

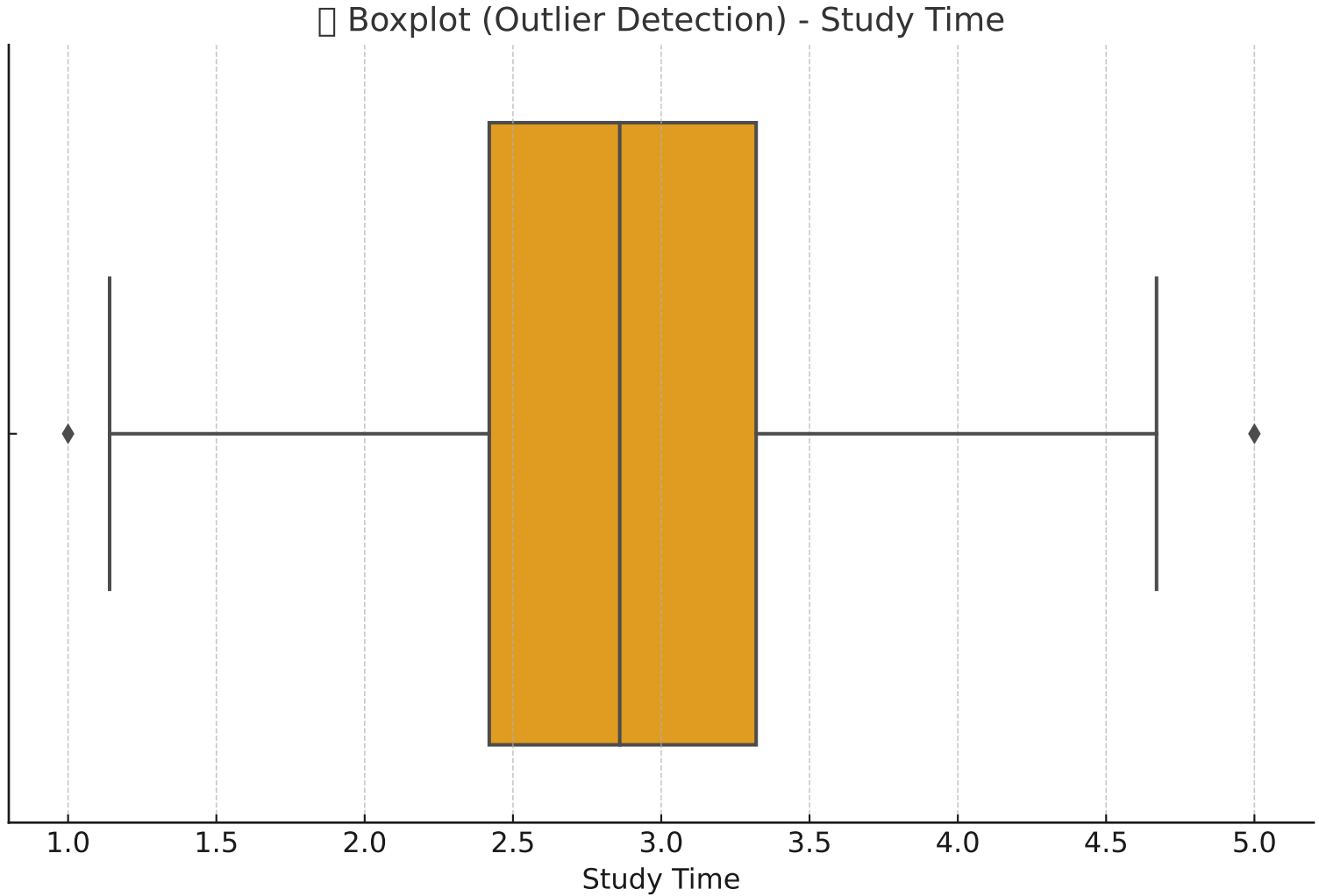

Boxplot (Outlier Detection) - Age
6
8
10
12
14
16
18
Age

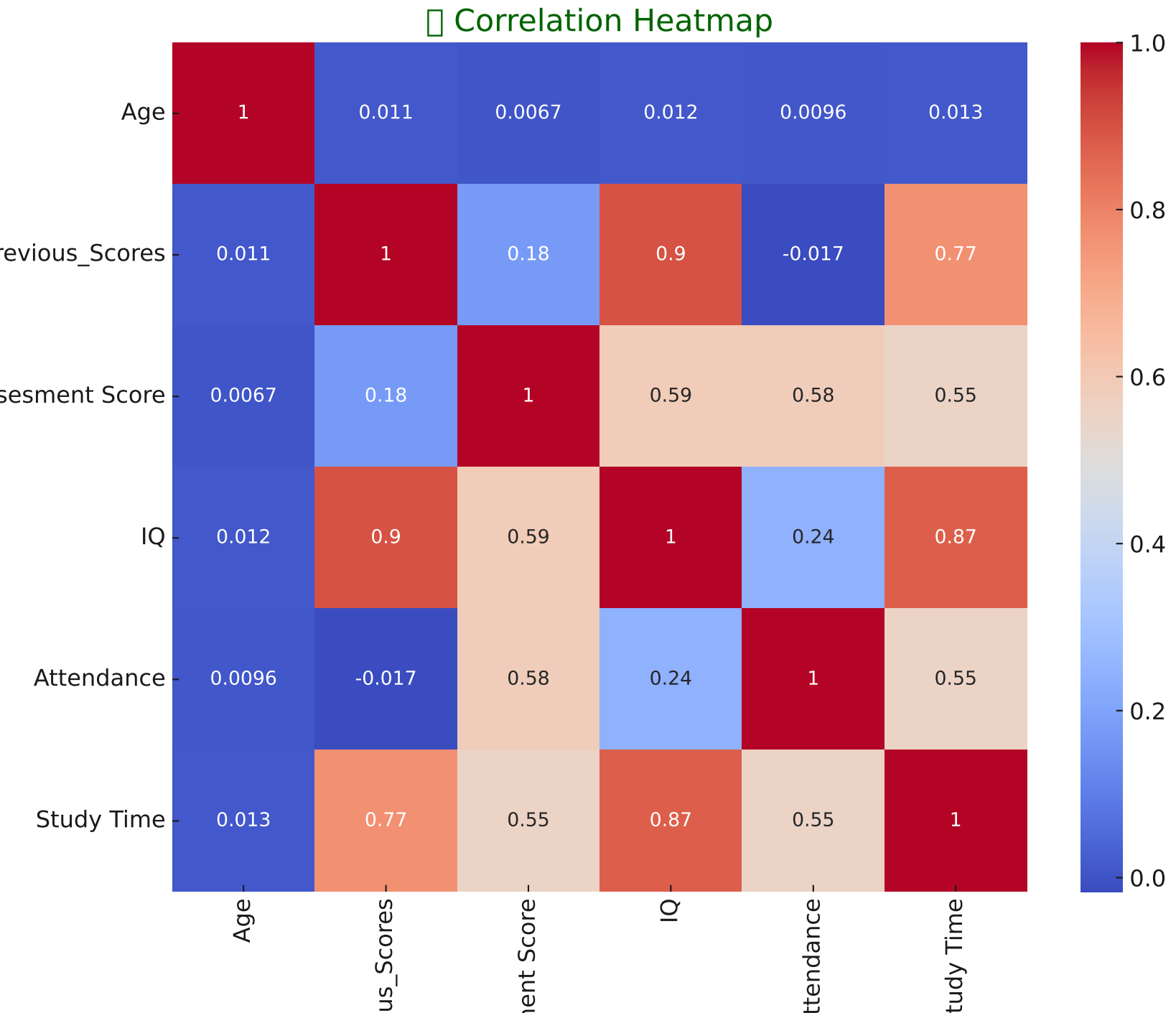

Boxplot (Outlier Detection) - Previous_Scores
50
60
70
80
90
100
Previous_Scores

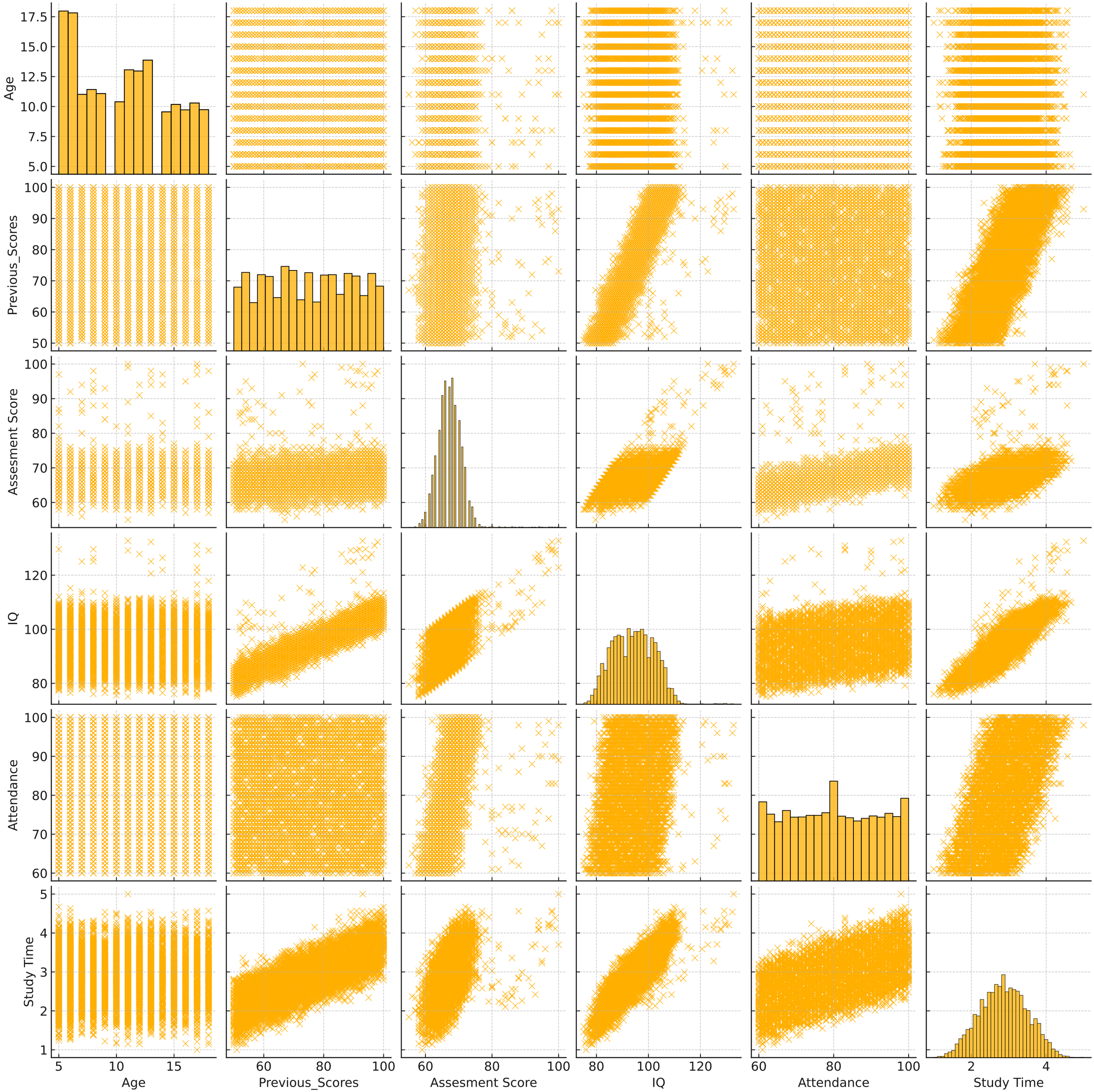

Boxplot (Outlier Detection) - Assesment Score
60
70
80
90
100
Assesment Score

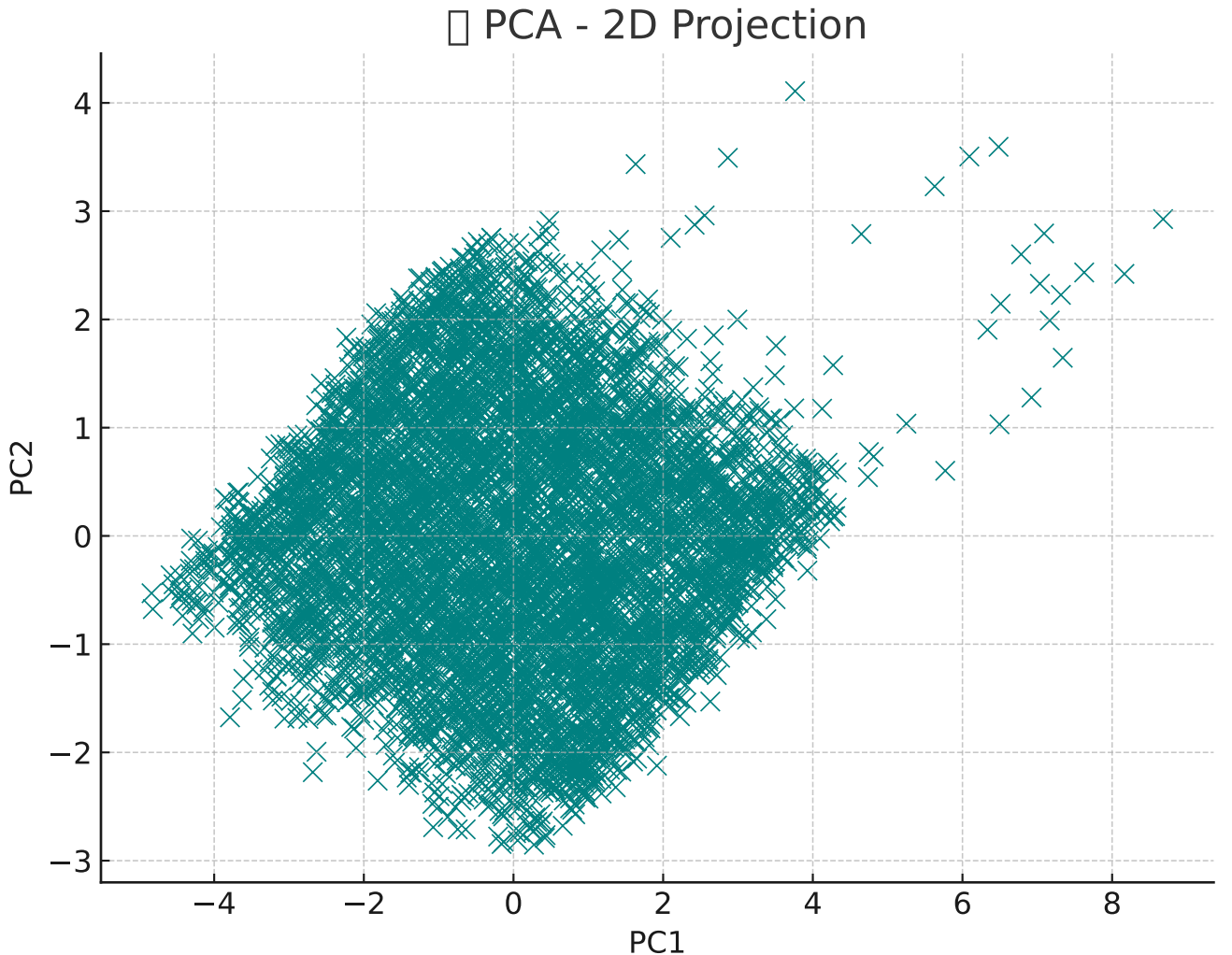

Boxplot (Outlier Detection) - IQ
80
90
100
110
120
130
IQ


Boxplot (Outlier Detection) - Attendance
60
65
70
75
80
85
90
95
100
Attendance


Boxplot (Outlier Detection) - Study Time
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Study Time


Correlation Heatmap
Age
revious_Scores
sesment Score
IQ
Attendance
Study Time
1
0.011
0.0067
0.012
0.0096
0.013
0.011
1
0.18
0.9
-0.017
0.77
0.0067
0.18
1
0.59
0.58
0.55
0.012
0.9
0.59
1
0.24
0.87
0.0096
-0.017
0.58
0.24
1
0.55
0.013
0.77
0.55
0.87
0.55
1
Age
us_Scores
ent Score
IQ
ttendance
tudy Time
1.0
0.8
0.6
0.4
0.2
0.0


Age
Previous_Scores
Assesment Score
IQ
Attendance
Study Time


PCA - 2D Projection
PC1
PC2
−4
−2
0
2
4
6
8
−3
−2
−1
0
1
2
3
4

EDA Completed Successfully

Powerful Insights Extracted!