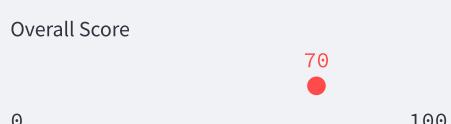
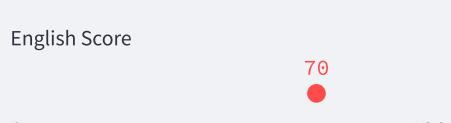
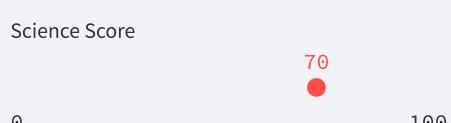
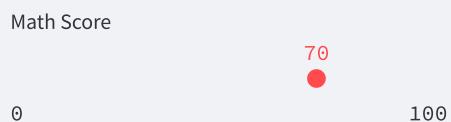


Student Information



Final Grade

▼

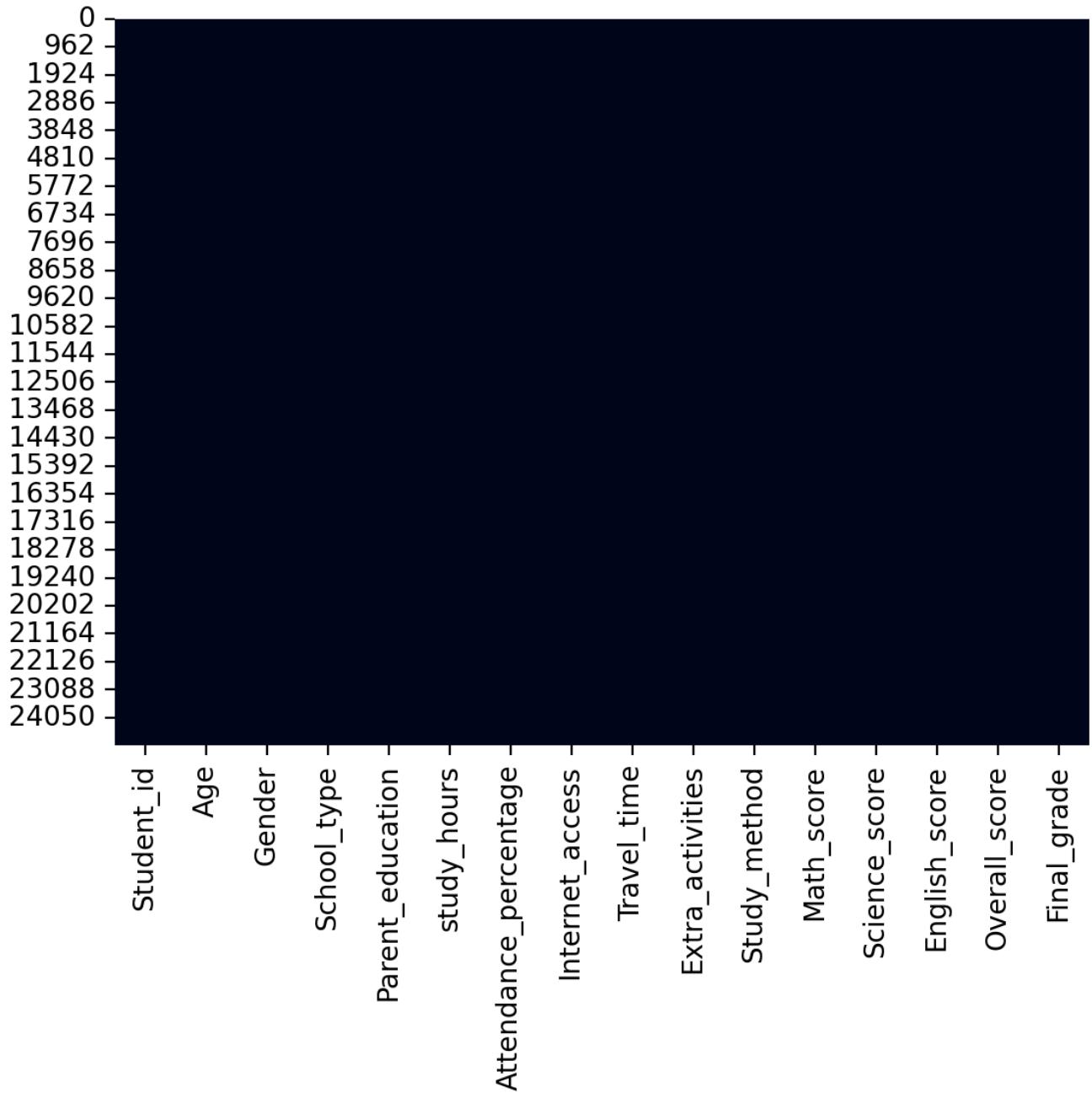
Predict Risk

Student Risk Prediction System

Dataset Preview

	Student_id	Age	Gender	School_type	Parent_education	study_hours	Attendance_percentage	Internet_access	Travel_
0	1	14	Male	Public	Post Graduate	3.1	84.3	yes	<15 min
1	2	18	Female	Public	Graduate	3.7	87.8	yes	>60 min
2	3	17	Female	Private	Post Graduate	7.9	65.5	no	<15 min
3	4	16	Other	Public	High School	1.1	58.1	no	15-30 n
4	5	16	Female	Public	High School	1.3	61	yes	30-60 n

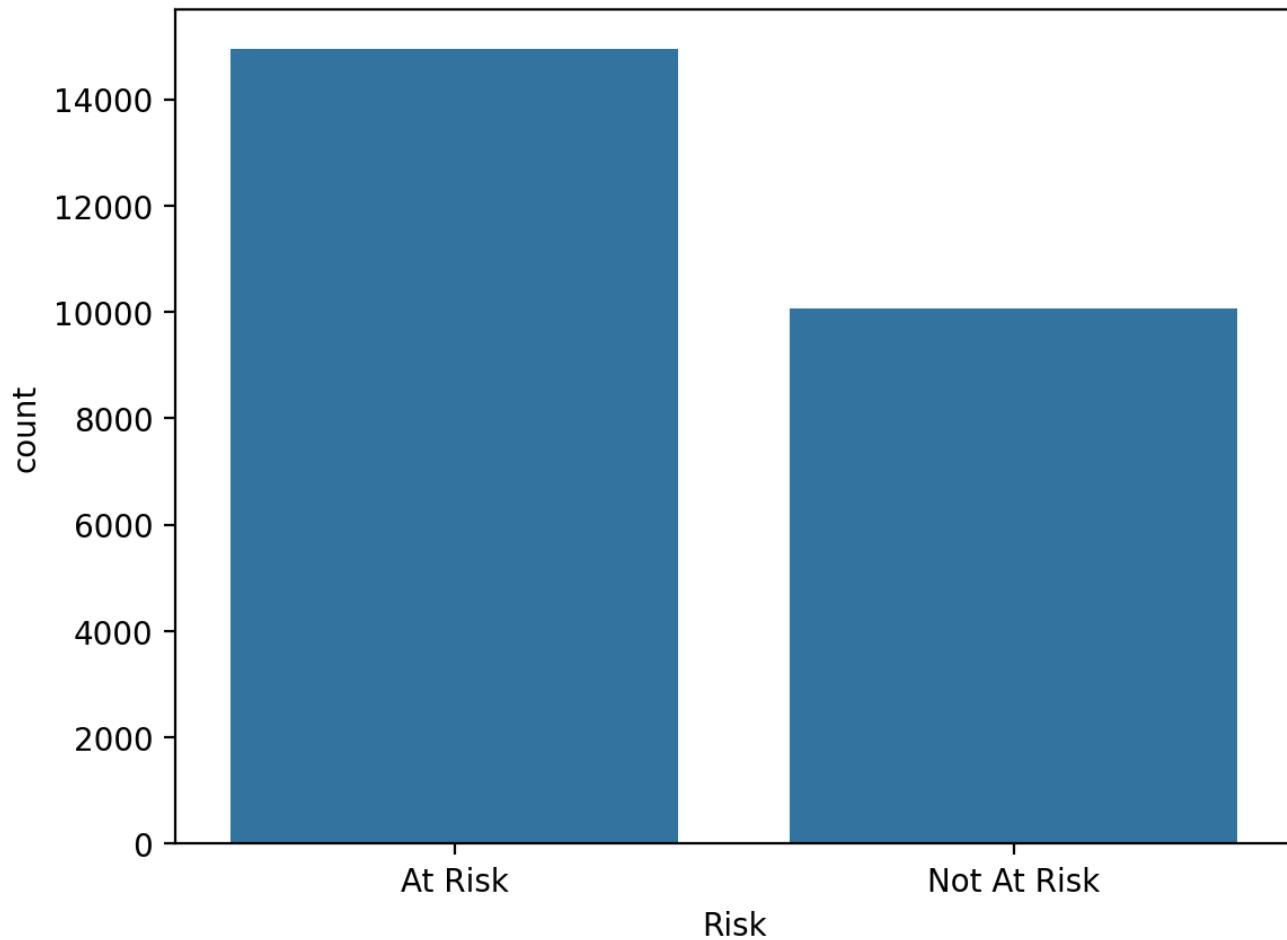
Missing Values Heatmap



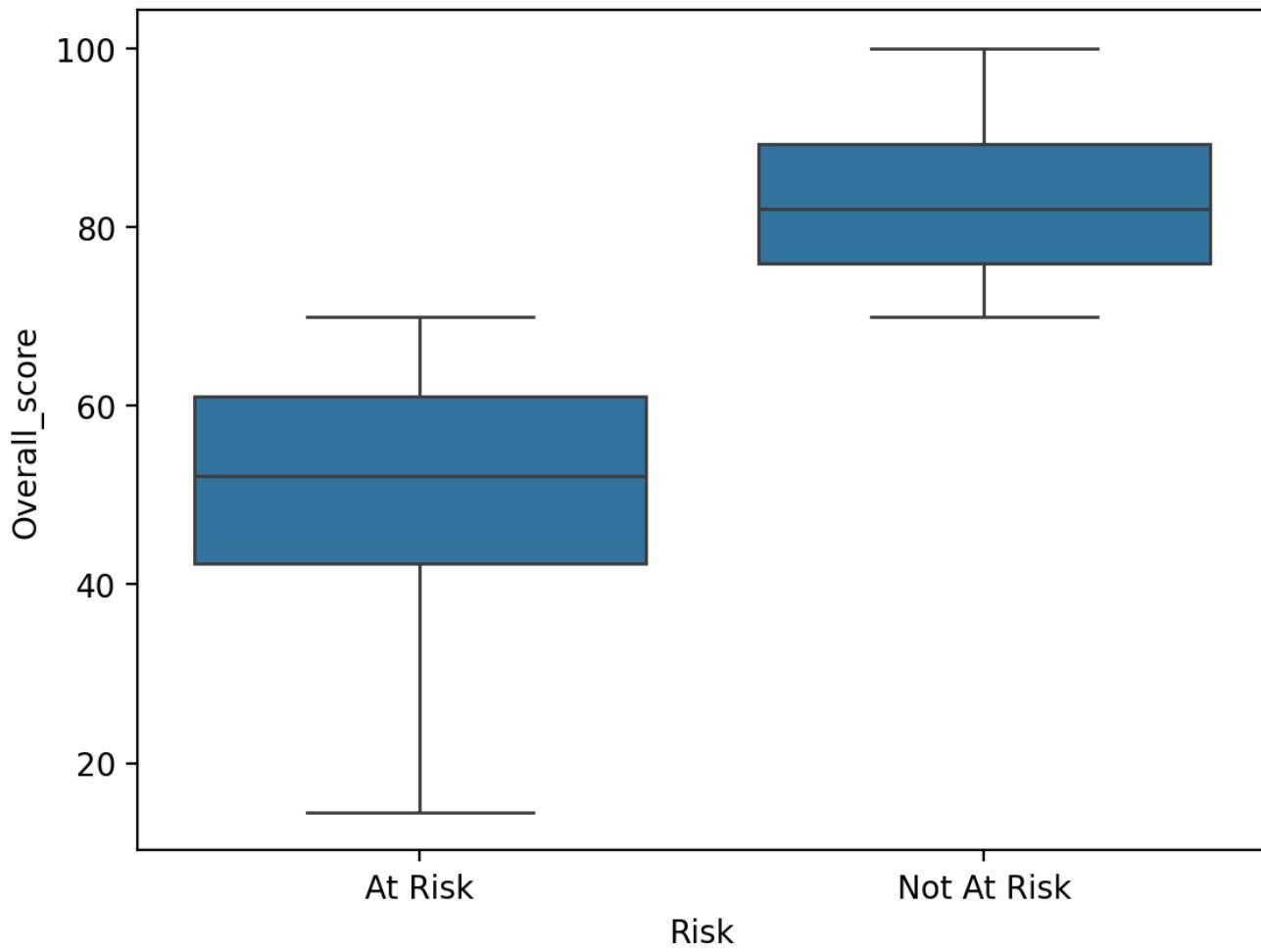
Descriptive Statistics of the Dataset

	count	mean	std	min	25%	50%	75%	max
Student_id	25,000	7,493.0438	4,323.5622	1	3,743.75	7,461.5	11,252	15,000
Age	25,000	16.4828	1.7039	14	15	16	18	19
study_hours	25,000	4.2532	2.1675	0.5	2.4	4.3	6.1	8
Attendance_percentage	25,000	75.0841	14.3732	50	62.8	75.1	87.5	100
Math_score	25,000	63.7859	20.8753	0	48.3	64.1	80	100
Science_score	25,000	63.7453	20.9705	0	48.2	64.1	80	100
English_score	25,000	63.6819	20.7927	0	48.3	64.2	80	100
Overall_score	25,000	64.0062	18.932	14.5	49	64.2	79	100

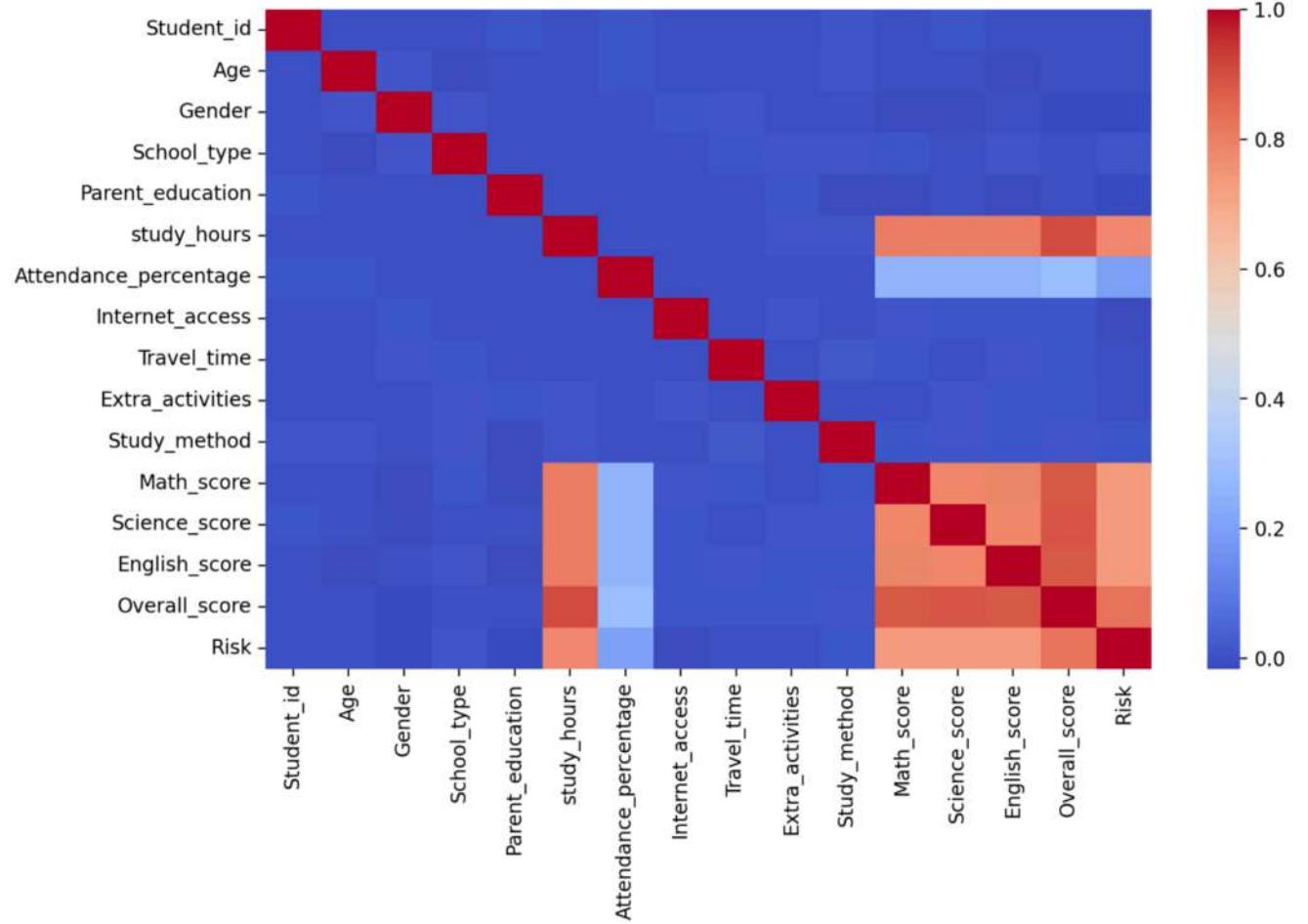
Risk Distribution



Overall Score vs Risk



Feature Correlation



Model Performance

Accuracy: 0.9968

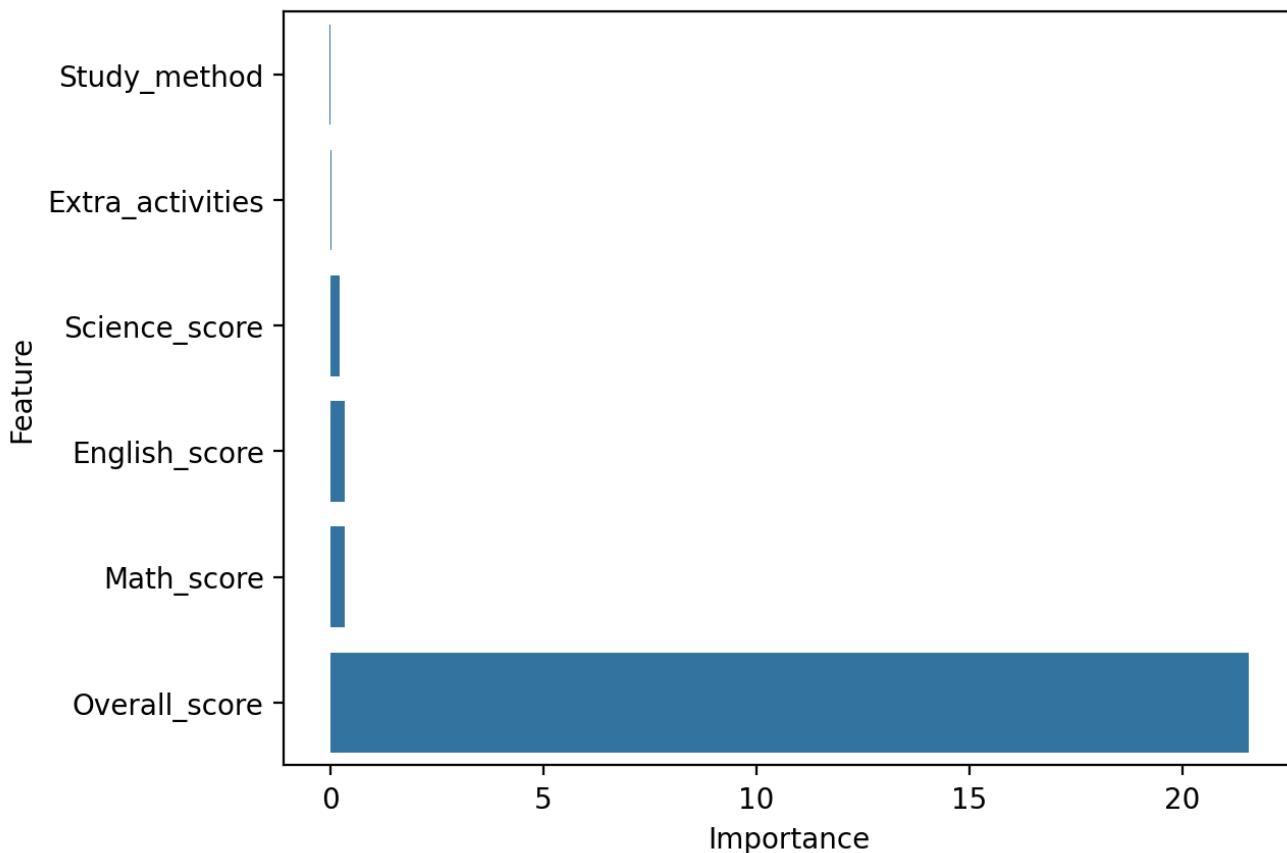
Confusion Matrix

0	1
2,998	6
10	1,986

Classification Report

	precision	recall	f1-score	support
At Risk (0)	1.00	1.00	1.00	3004
Not At Risk (1)	1.00	0.99	1.00	1996
accuracy			1.00	5000
macro avg	1.00	1.00	1.00	5000
weighted avg	1.00	1.00	1.00	5000

📊 Feature Importance



Prediction Result

 Not At Risk

Grade Entered: C

Model Confidence: 0.50

	Risk Status	Probability
0	At Risk	0.4973
1	Not At Risk	0.5027