

### **Quality Report**

Date: 07/07/2023

Project Name: 88d4fec4-a26e-4895-bb1e-42fd4322fea8

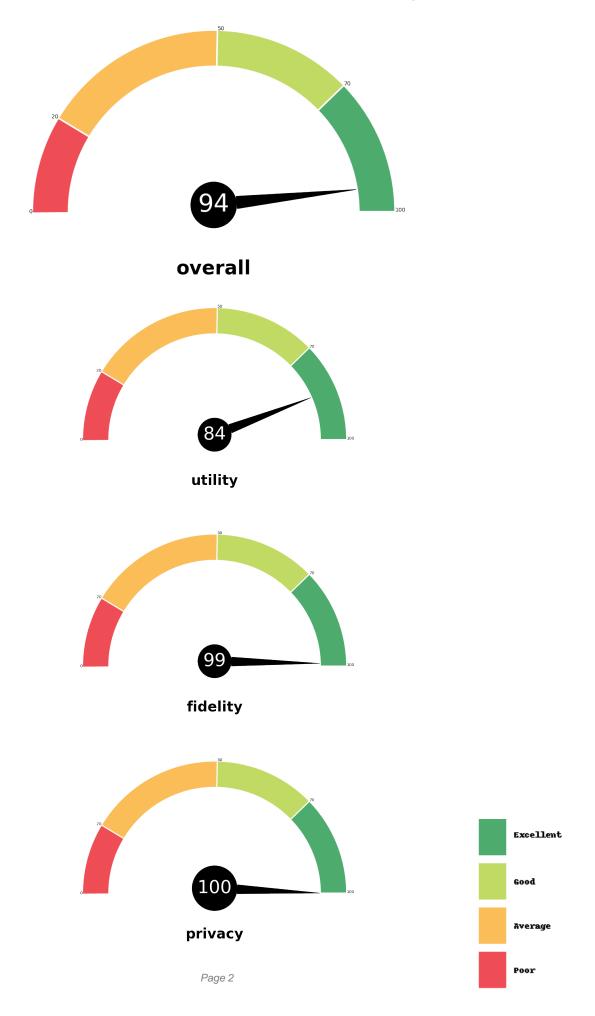
Dataset Version: 0ed12fae-54cc-454b-b002-1b86160aafcc

**Configuration Name: base** 

**Configuration Version: 1.0** 



# **Quality Report: Summary**





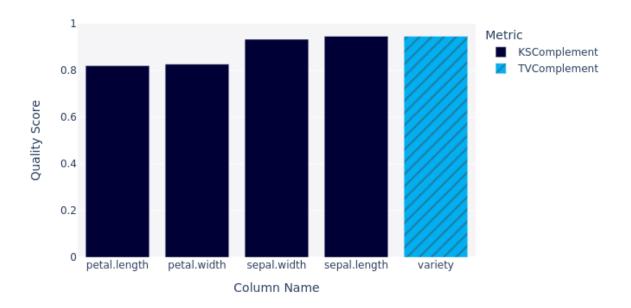
# **Quality Report: Utility**

### Metrics for table: iris

### **Column Shape**

Column	Metric	Quality Score	
sepal.length	KSComplement	0.95	
sepal.width	KSComplement	0.93	
petal.length	KSComplement	0.82	
petal.width	KSComplement	0.83	
variety	TVComplement	0.95	

### Data Quality: Column Shapes (Average Score=0.89)





# **Quality Report: Utility**

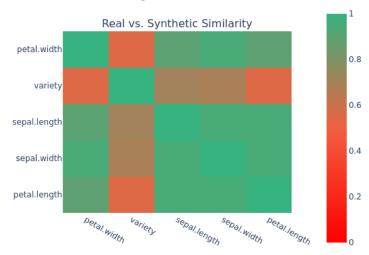
### **Column Pair Trend**

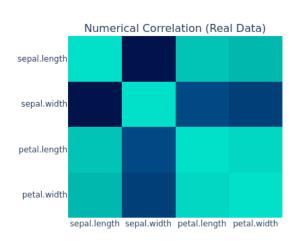
Column 1	Column 2	Metric	Quality Score	Real Correlation	Synthetic Correlation
sepal.length	sepal.width	CorrelationSimilarity	0.95	-0.11	-0.01
petal.length	sepal.length	CorrelationSimilarity	0.95	0.87	0.77
petal.width	sepal.length	CorrelationSimilarity	0.9	0.82	0.62
petal.length	sepal.width	CorrelationSimilarity	0.95	-0.42	-0.32
petal.width	sepal.width	CorrelationSimilarity	0.95	-0.36	-0.26
petal.length	petal.width	CorrelationSimilarity	0.89	0.96	0.73
sepal.length	variety	ContingencySimilarity	0.71	nan	nan
sepal.width	variety	ContingencySimilarity	0.69	nan	nan
petal.length	variety	ContingencySimilarity	0.55	nan	nan
petal.width	variety	ContingencySimilarity	0.55	nan	nan

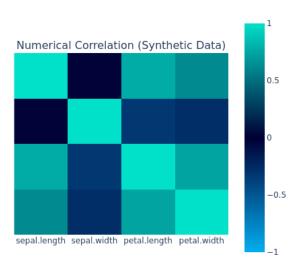


# **Quality Report: Utility**

#### Data Quality: Column Pair Trends (Average Score=0.81)









### **Quality Report: Fidelity**

Metrics for table: iris

### **Summary:**

The synthetic data covers over 90% of the numerical ranges present in the real data

The synthetic data covers over 90% of the categories present in the real data

Over 90% of the synthetic rows are not copies of the real data

The synthetic data follows over 90% of the min/max boundaries set by the real data

### **Similarity Metrics**

Similarity Metric	Score
Mean	0.99
Standard Deviation	0.98
Median	0.97
Missing Value	1.0

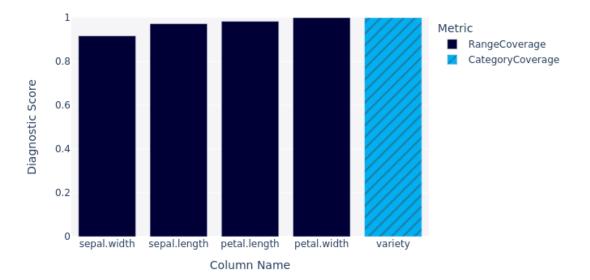
### **Coverage Metrics**

Column	Metric	Diagnostic Score
sepal.length	RangeCoverage	0.97
sepal.width	RangeCoverage	0.92
petal.length	RangeCoverage	0.98
petal.width	RangeCoverage	1.0
variety	CategoryCoverage	1.0



# **Quality Report: Fidelity**

Data Diagnostics: Column Coverage (Average Score=0.97)



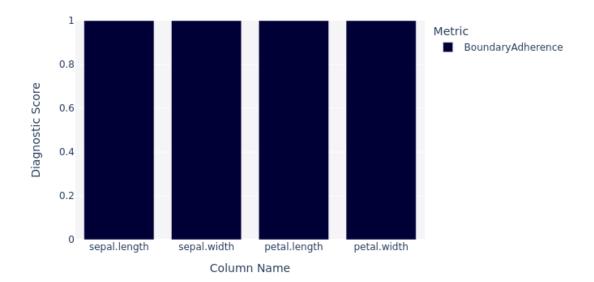


# **Quality Report: Fidelity**

### **Boundary Metrics**

Column	Metric	Diagnostic Score	
sepal.length	BoundaryAdherence	1.0	
sepal.width	BoundaryAdherence	1.0	
petal.length	BoundaryAdherence	1.0	
petal.width	BoundaryAdherence	1.0	

### Data Diagnostics: Column Boundaries (Average Score=1.0)





# **Quality Report: Privacy**

Metrics for table: iris

### **Synthesis**

Metric	Diagnostic Score	Num Matched Rows	Num New Rows
NewRowSynthesis	1.0	0	150

Data Diagnostic: Synthesis (Score=1.0)

