User Name: Aaryan User ID: 37275 Tool Used: Gretel

All Categorical Variables:
Embarked
Sex
Survived
Ticket
Name
Cabin
Independent Continuous Variables:
Independent Continuous Variables: Passengerld
Passengerld
Passengerld Pclass
PassengerId Pclass Age
Passengerld Pclass Age SibSp

User Name: Aaryan User ID: 89790 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

Kolmogorov-Smirnov Test Results:

Variable	p-value	KS-Statistic	Inference	Result
Passengerld	1.5682775992087616e-48	0.2684776655443322	Does not match the real data distribution significantly.	Fail
Pclass	6.040481159102964e-12	0.13197575757575758	Does not match the real data distribution significantly.	Fail
Age	3.457973660150079e-39	0.2413117845117845	Does not match the real data distribution significantly.	Fail
SibSp	2.5786292703585823e-05	0.08597934904601572	Does not match the real data distribution significantly.	Fail
Parch	7.984215474120097e-05	0.08154276094276094	Does not match the real data distribution significantly.	Fail
Fare	1.8106059226207038e-157	0.47710864197530867	Does not match the real data distribution significantly.	Fail

User Name: Aaryan User ID: 30566 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

T-Test Results:

Variable	p-value	T-Statistic	Inference	Result
Passengerld	0.0002773089345938805	3.637819205714891	Significantly different means from real data.	Fail
Pclass	1.0331804101507008e-09	6.114126846359151	Significantly different means from real data.	Fail
Age	nan	nan	Significantly different means from real data.	Fail
SibSp	2.131506513712287e-06	-4.745266668286333	Significantly different means from real data.	Fail
Parch	0.011809978805879971	-2.51855653961849	Significantly different means from real data.	Fail
Fare	1.7469815171730086e-12	7.068543946945586	Significantly different means from real data.	Fail

User Name: Aaryan User ID: 18137 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

Mann-Whitney U Test Results:

Variable	p-value	MWU-Statistic	Inference	Result
PassengerId	3.0483860501763937e-06	2444126.0	Significantly different distributions from real data.	Fail
Pclass	5.018352759625736e-09	2477037.5	Significantly different distributions from real data.	Fail
Age	nan	nan	Significantly different distributions from real data.	Fail
SibSp	3.7416323677997957e-06	2040726.5	Significantly different distributions from real data.	Fail
Parch	4.279772617887337e-05	2072229.0	Significantly different distributions from real data.	Fail
Fare	5.065045944198622e-73	3058671.5	Significantly different distributions from real data.	Fail

User Name: Aaryan User ID: 95893 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

ANOVA Results:

Variable	p-value	F-Statistic	Inference	Result
Passengerld	3.0482262645543825e-06	13.233728573468158	Significantly different means from real data.	Fail
Pclass	5.0179995192130826e-09	37.38254709336976	Significantly different means from real data.	Fail
Age	6.782911415772228e-11	8.305689333131532	Significantly different means from real data.	Fail
SibSp	3.74140884657156e-06	22.517555753149274	Significantly different means from real data.	Fail
Parch	4.2795293916982664e-05	6.3431270432550635	Significantly different means from real data.	Fail
Fare	5.0640476230184647e-73	49.96431352990109	Significantly different means from real data.	Fail

User Name: Aaryan User ID: 36762 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

Kruskal-Wallis Test Results:

Variable	p-value	H-Statistic	Inference	Result
Passengerld	3.0482262645543825e-06	21.785959811144902	Significantly different distributions from real data.	Fail
Pclass	5.0179995192130826e-09	34.18242925243185	Significantly different distributions from real data.	Fail
Age	6.782911415772228e-11	42.58059080090582	Significantly different distributions from real data.	Fail
SibSp	3.74140884657156e-06	21.392968094764136	Significantly different distributions from real data.	Fail
Parch	4.2795293916982664e-05	16.74320318265976	Significantly different distributions from real data.	Fail
Fare	5.0640476230184647e-73	326.68643198538064	Significantly different distributions from real data.	Fail

User Name: Aaryan User ID: 78878 Tool Used: Gretel

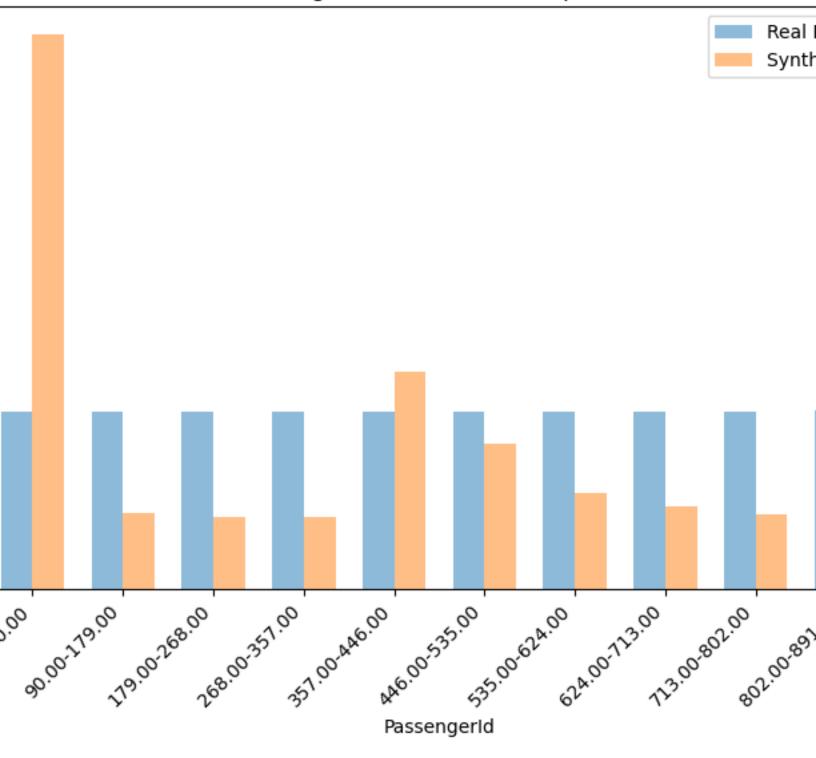
Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

Chi-Square Test Results:

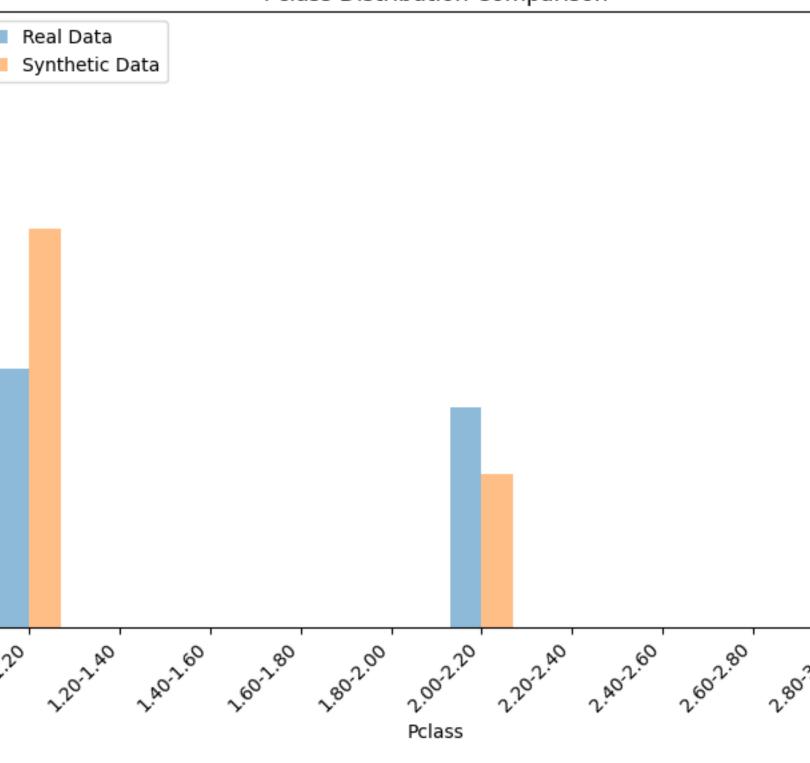
Variable	p-value	Chi2 Statistic	Inference	Result
Embarked	0.17075230342654243	6.406891883591322	Sig. association between the two variables (similar)	Pass
Sex	0.8925041413931792	0.018261808899252534	Sig. association between the two variables (similar)	Pass
Survived	0.5068543903161106	0.44055564653369533	Sig. association between the two variables (similar)	Pass
Ticket	3.5435223047565303e-07	104255.5319669959	No association between the two variables.	Fail
Name	0.31625643680525556	361746.0000000001	Sig. association between the two variables (similar)	Pass
Cabin	0.16315724393042344	1821.25	Sig. association between the two variables (similar)	Pass

User Name: Aaryan User ID: 65573 Tool Used: Gretel

PassengerId Distribution Comparison

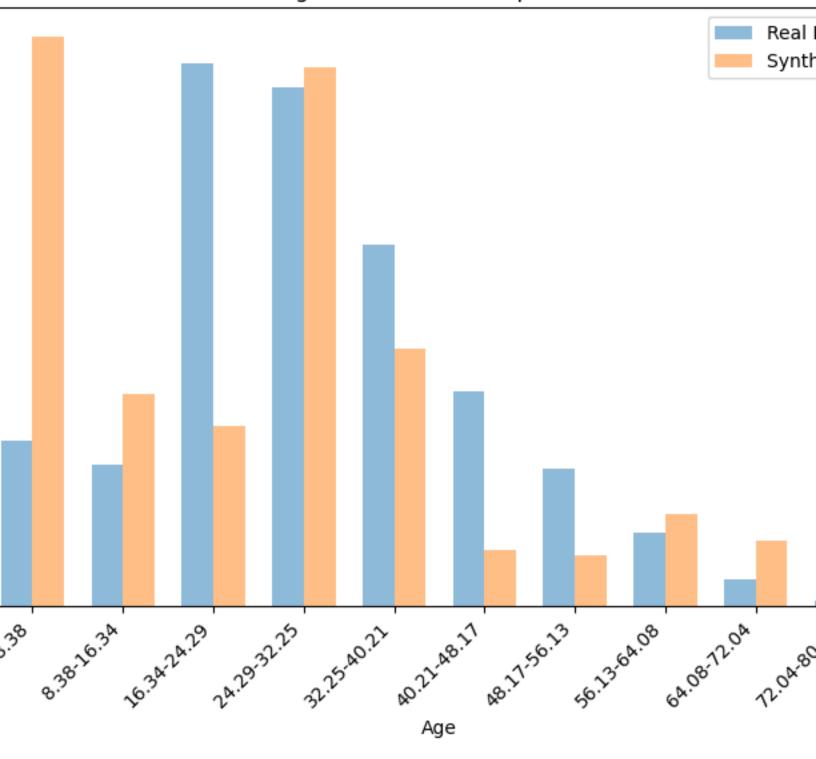


User Name: Aaryan User ID: 37871 Tool Used: Gretel



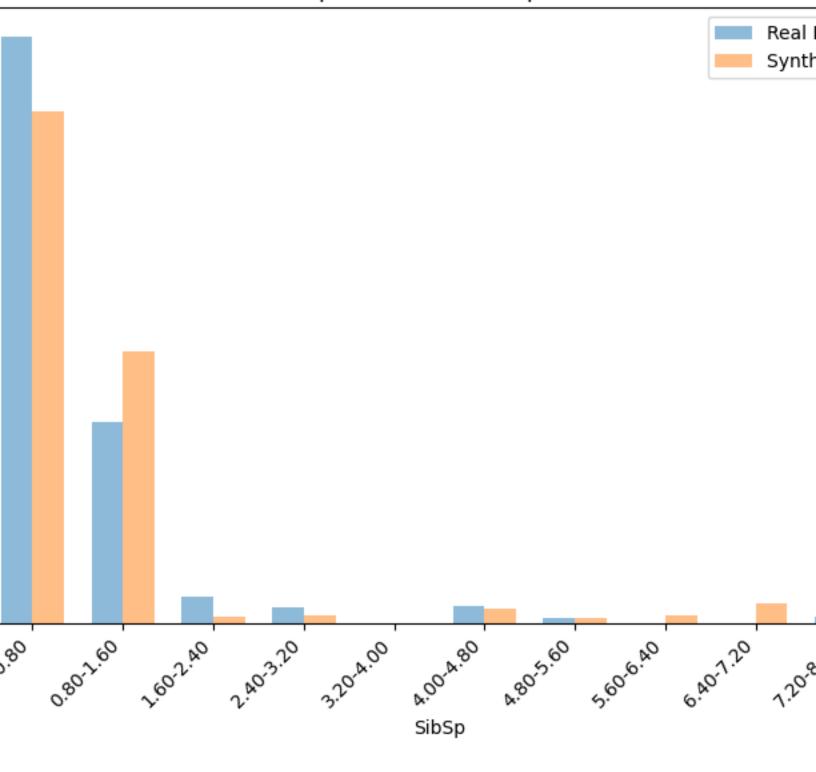
User Name: Aaryan User ID: 24971 Tool Used: Gretel

Age Distribution Comparison



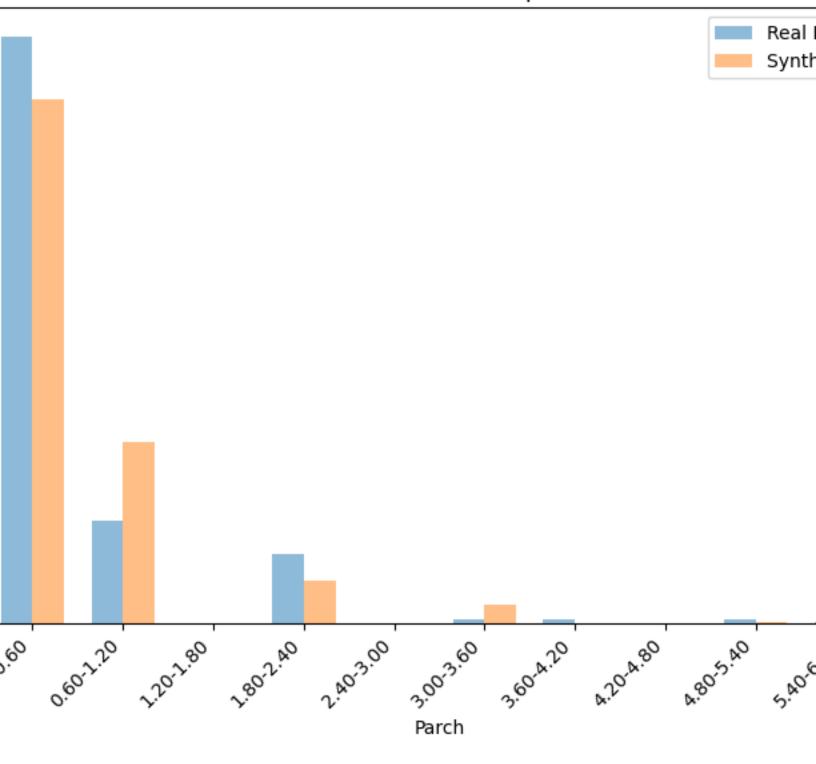
User Name: Aaryan User ID: 18013 Tool Used: Gretel

SibSp Distribution Comparison



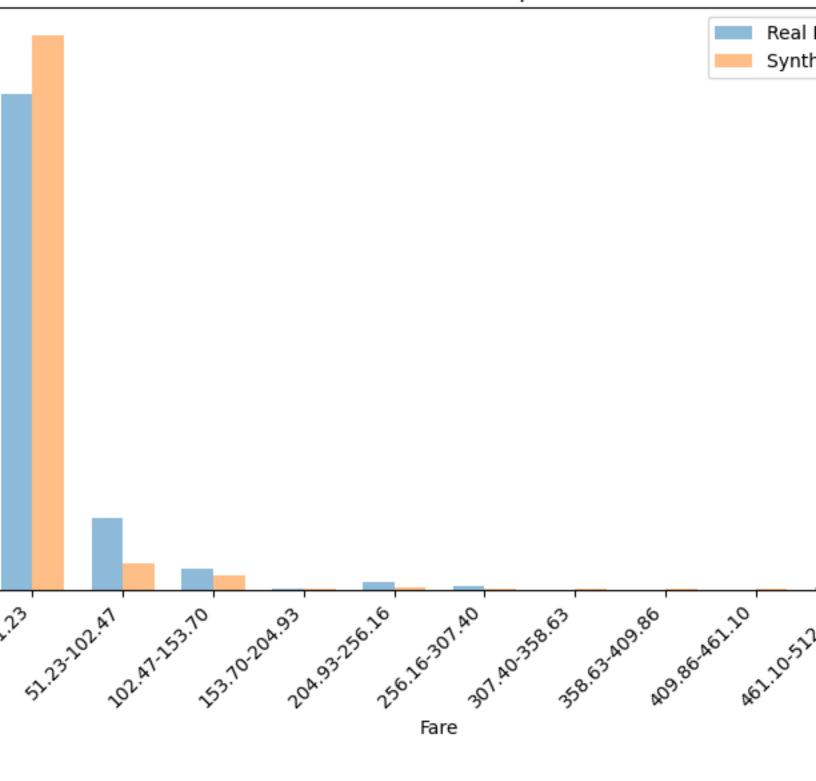
User Name: Aaryan User ID: 97196 Tool Used: Gretel

Parch Distribution Comparison



User Name: Aaryan User ID: 38215 Tool Used: Gretel

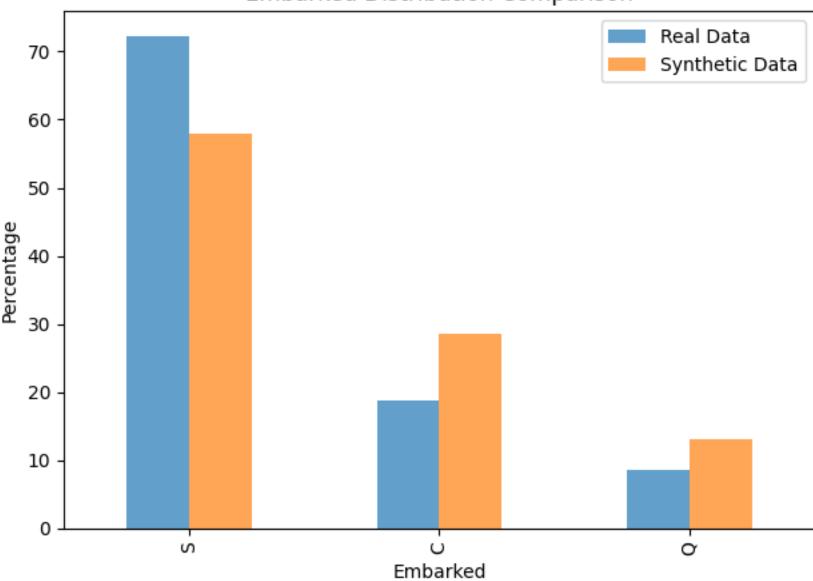
Fare Distribution Comparison



User Name: Aaryan User ID: 16803 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

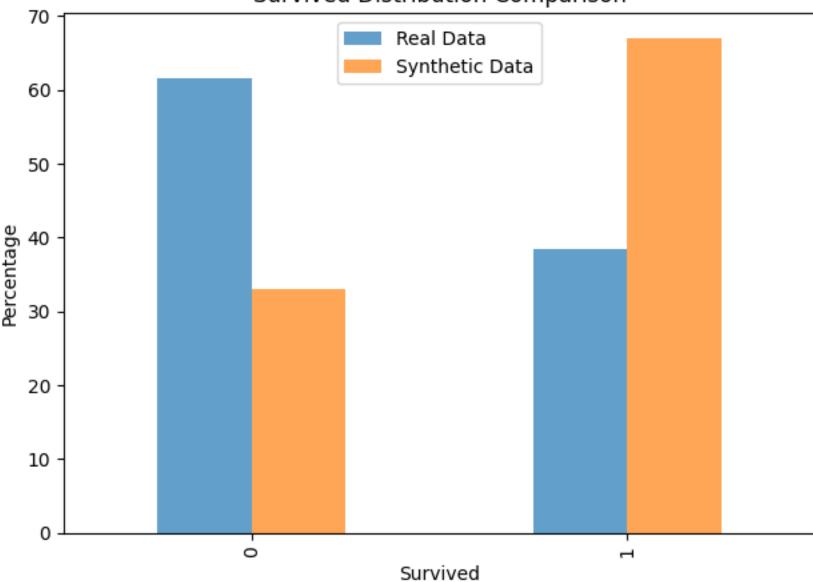
Embarked Distribution Comparison



User Name: Aaryan User ID: 27528 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

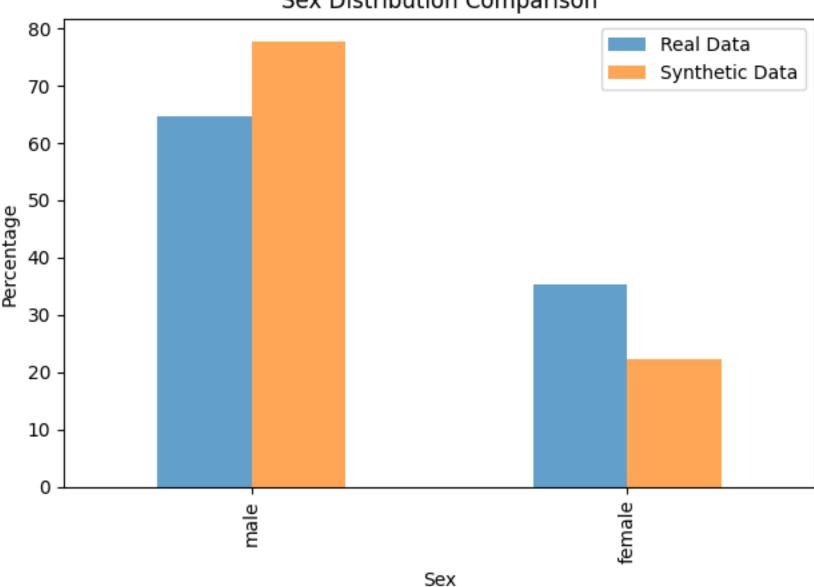
Survived Distribution Comparison



User Name: Aaryan **User ID:** 84681 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 Execution End Time: 2023-08-06 11:54:41

Sex Distribution Comparison



User Name: Aaryan User ID: 54665 Tool Used: Gretel

Execution Start Time: 2023-08-06 11:54:41 **Execution End Time:** 2023-08-06 11:54:41

PCA: Real vs. Synthetic Data

PCA: Real vs. Synthetic Data

