

First 5 rows:

	PassengerId	Survived	Pclass	\
0	1	0	3	
1	2	1	1	
2	3	1	3	
3	4	1	1	
4	5	0	3	

	Name	Sex	Age	SibSp	\
0	Braund, Mr. Owen Harris	male	22.0	1	
1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	
2	Heikkinen, Miss. Laina	female	26.0	0	
3	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	
4	Allen, Mr. William Henry	male	35.0	0	

	Parch	Ticket	Fare	Cabin	Embarked
0	0	A/5 21171	7.2500	NaN	S
1	0	PC 17599	71.2833	C85	C
2	0	STON/O2. 3101282	7.9250	NaN	S
3	0	113803	53.1000	C123	S
4	0	373450	8.0500	NaN	S

Summary Statistics:

	PassengerId	Survived	Pclass	Name	Sex	\
count	891.000000	891.000000	891.000000	891	891	
unique	NaN	NaN	NaN	891	2	
top	NaN	NaN	NaN	Dooley, Mr. Patrick	male	
freq	NaN	NaN	NaN	1	577	
mean	446.000000	0.383838	2.308642	NaN	NaN	
std	257.353842	0.486592	0.836071	NaN	NaN	
min	1.000000	0.000000	1.000000	NaN	NaN	
25%	223.500000	0.000000	2.000000	NaN	NaN	
50%	446.000000	0.000000	3.000000	NaN	NaN	
75%	668.500000	1.000000	3.000000	NaN	NaN	
max	891.000000	1.000000	3.000000	NaN	NaN	

	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
count	714.000000	891.000000	891.000000	891	891.000000	204	889
unique	NaN	NaN	NaN	681	NaN	147	3
top	NaN	NaN	NaN	347082	NaN	G6	S
freq	NaN	NaN	NaN	7	NaN	4	644
mean	29.699118	0.523008	0.381594	NaN	32.204208	NaN	NaN
std	14.526497	1.102743	0.806057	NaN	49.693429	NaN	NaN
min	0.420000	0.000000	0.000000	NaN	0.000000	NaN	NaN
25%	20.125000	0.000000	0.000000	NaN	7.910400	NaN	NaN
50%	28.000000	0.000000	0.000000	NaN	14.454200	NaN	NaN
75%	38.000000	1.000000	0.000000	NaN	31.000000	NaN	NaN
max	80.000000	8.000000	6.000000	NaN	512.329200	NaN	NaN

Missing Values:

PassengerId	0
Survived	0
Pclass	0
Name	0
Sex	0
Age	177
SibSp	0

```
Parch          0
Ticket         0
Fare           0
Cabin         687
Embarked       2
dtype: int64
```

Data Info:

```
<class 'pandas.core.frame.DataFrame'>
```

```
RangeIndex: 891 entries, 0 to 890
```

```
Data columns (total 12 columns):
```

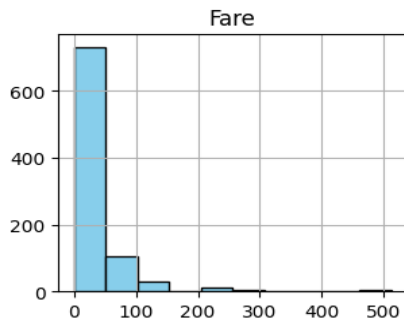
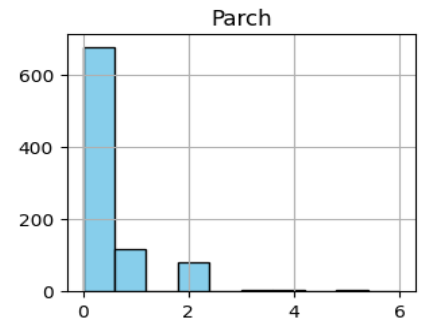
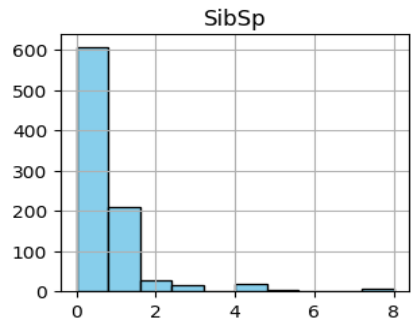
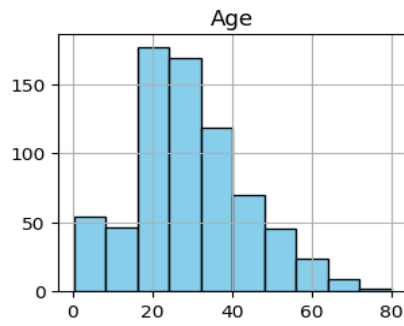
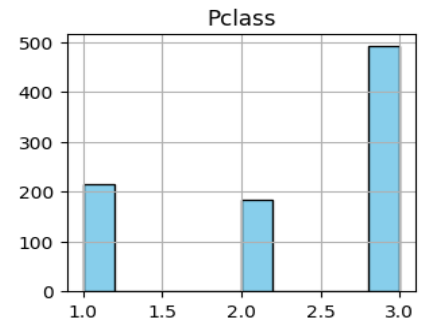
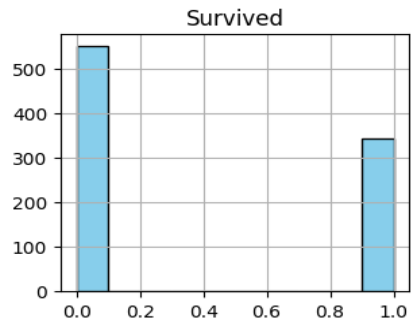
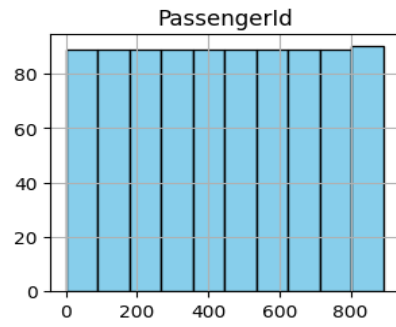
#	Column	Non-Null Count	Dtype
0	PassengerId	891 non-null	int64
1	Survived	891 non-null	int64
2	Pclass	891 non-null	int64
3	Name	891 non-null	object
4	Sex	891 non-null	object
5	Age	714 non-null	float64
6	SibSp	891 non-null	int64
7	Parch	891 non-null	int64
8	Ticket	891 non-null	object
9	Fare	891 non-null	float64
10	Cabin	204 non-null	object
11	Embarked	889 non-null	object

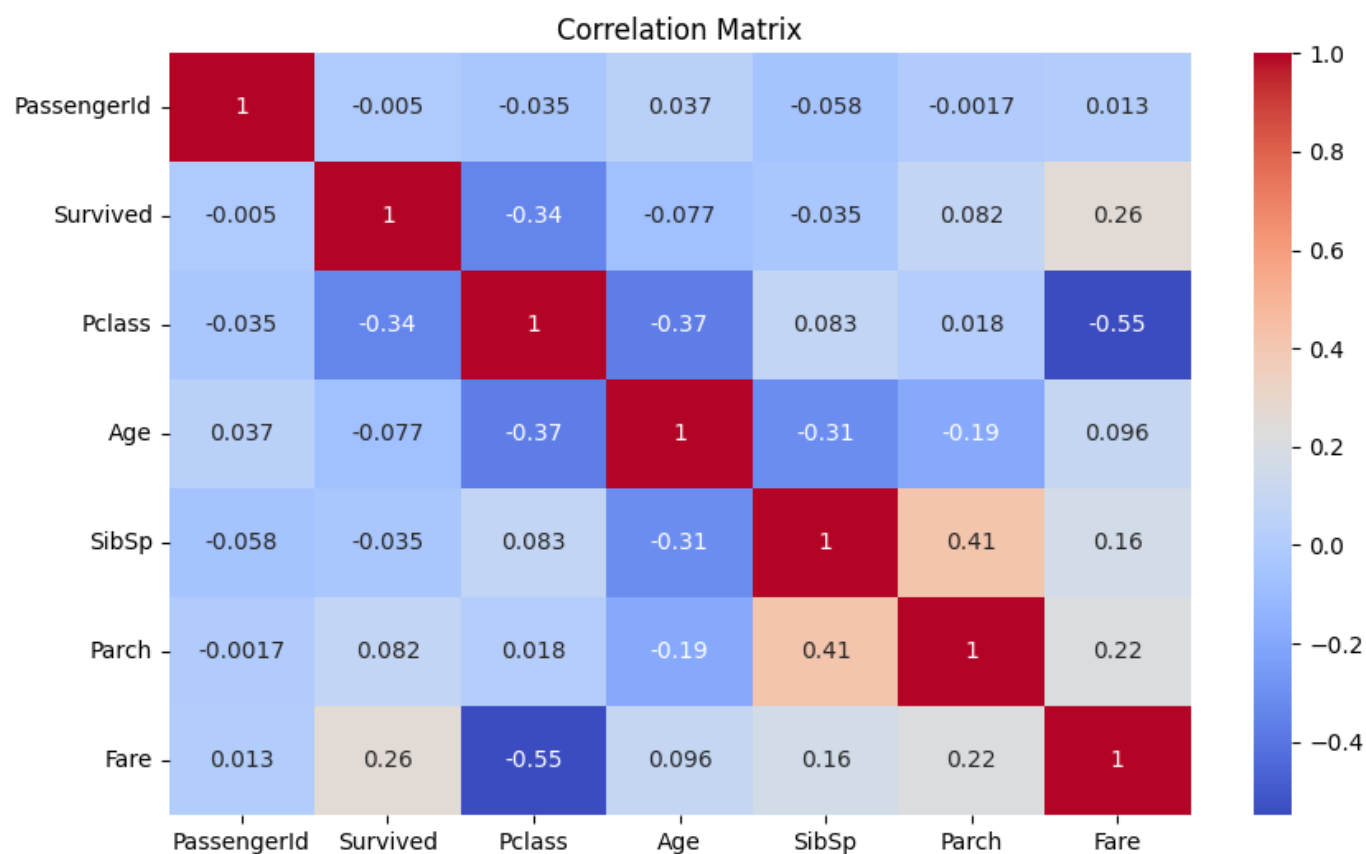
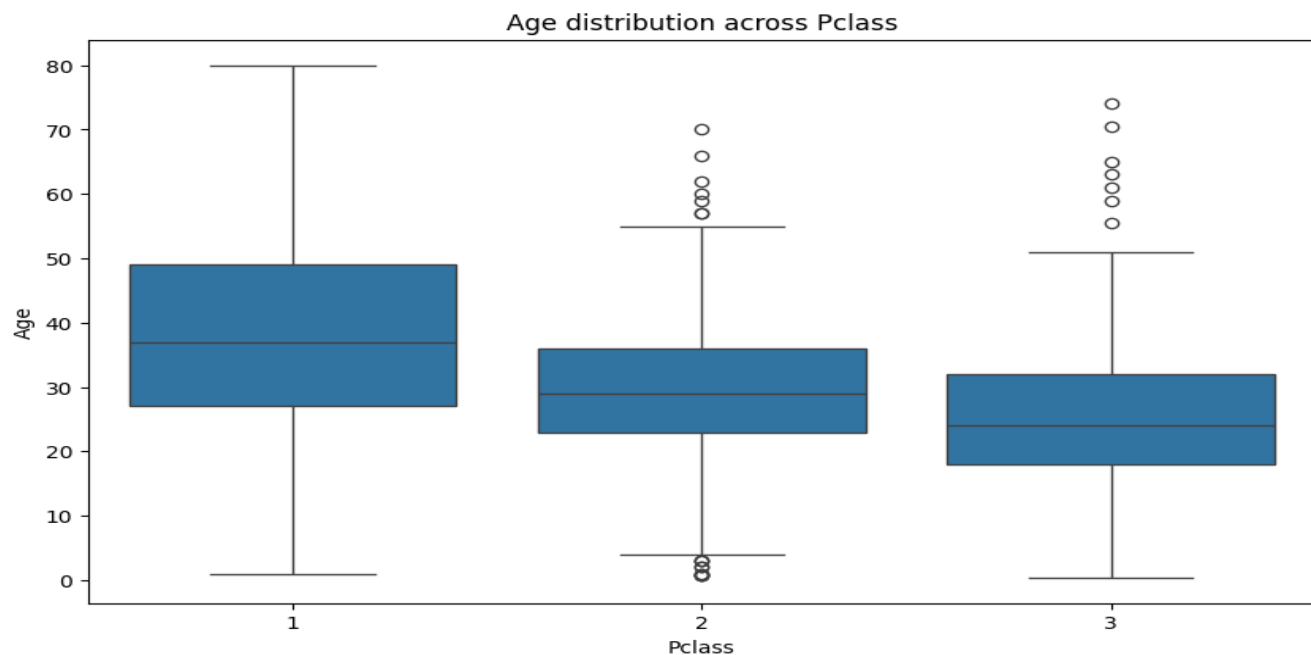
```
dtypes: float64(2), int64(5), object(5)
```

```
memory usage: 83.7+ KB
```

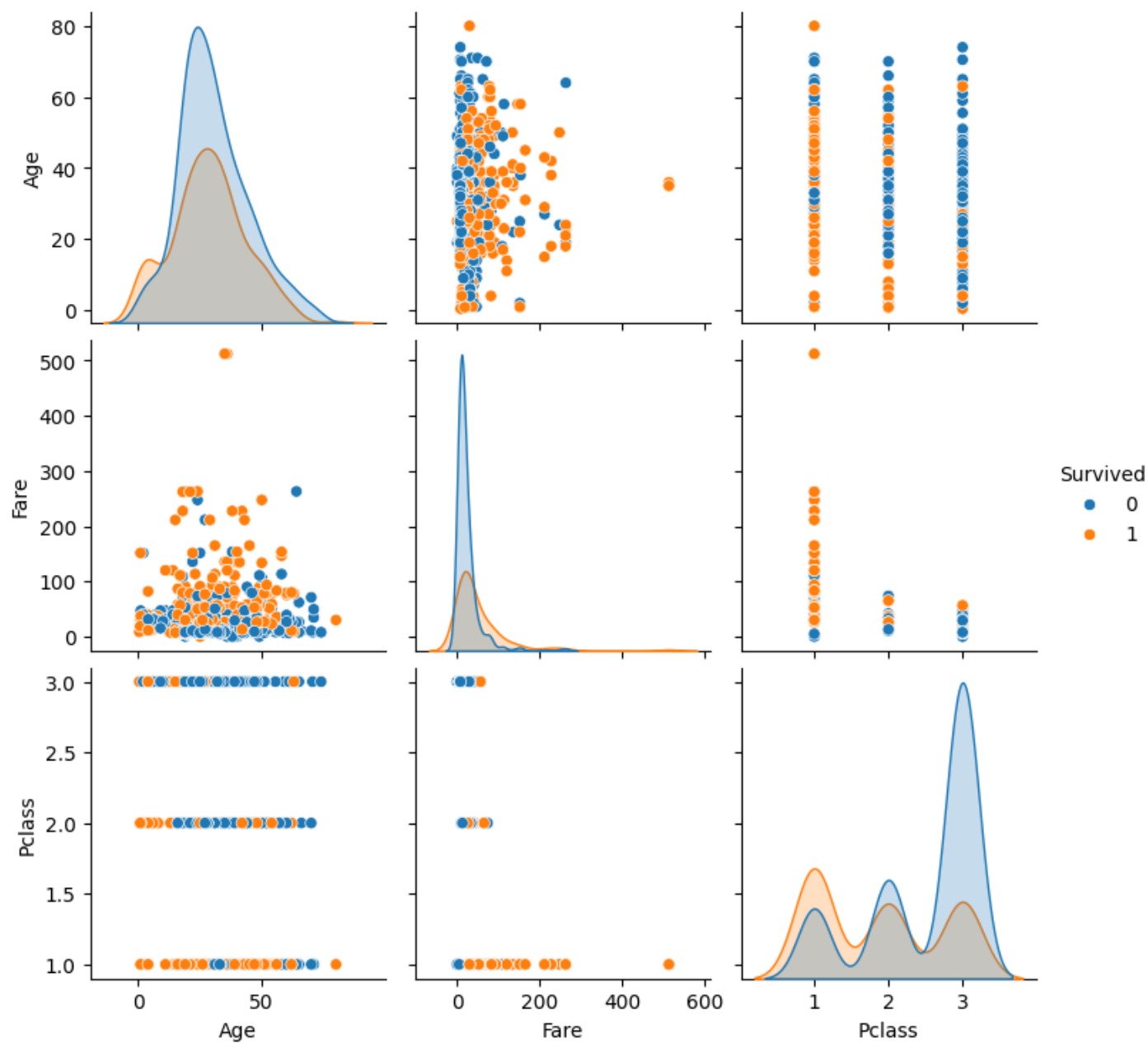
```
None
```

Histograms of Numeric Features





Pairplot of Features Colored by Survival

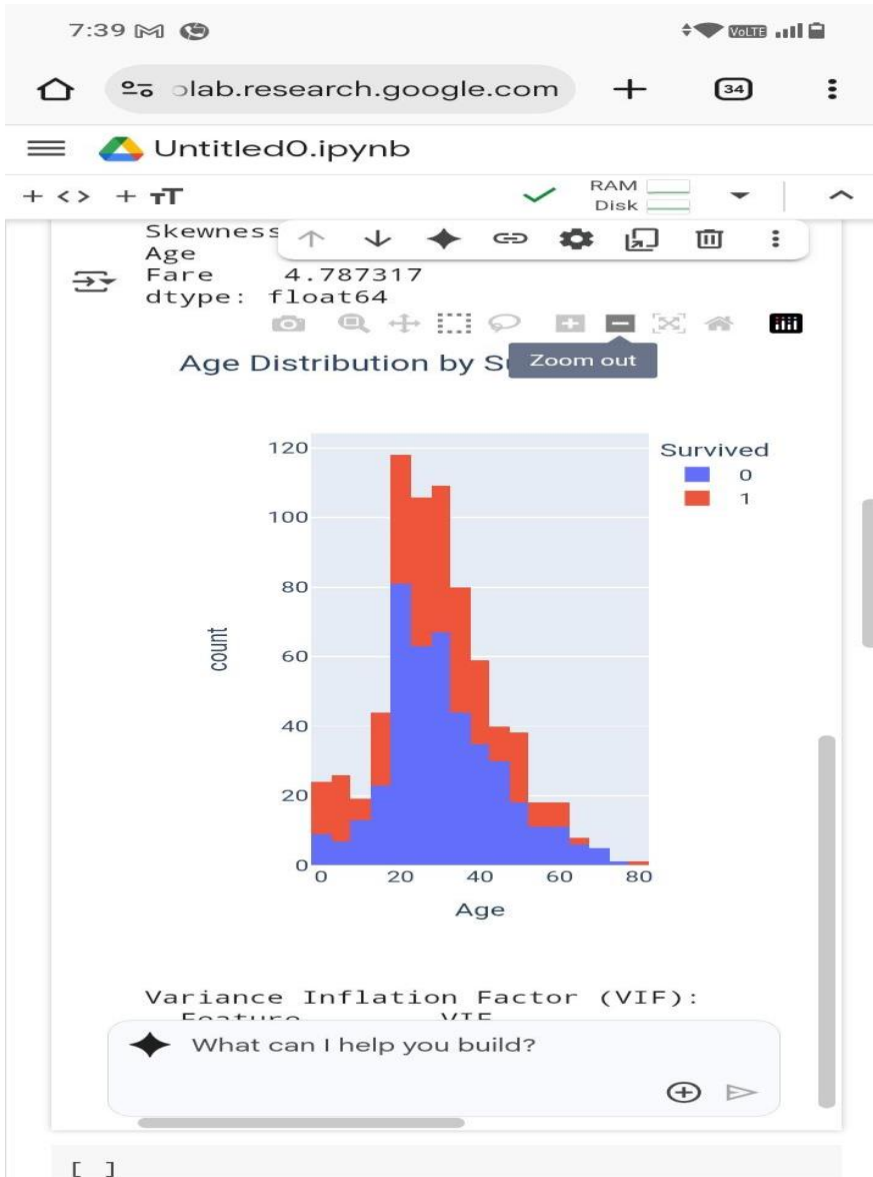


Skewness of Numeric Features:

Age 0.389108

Fare 4.787317

dtype: float64



```
Variance Inflation Factor (VIF):  
Feature      VIF  
0  const  28.098740  
1   Age   1.181104  
2  Fare   1.472237  
3  Pclass 1.688894
```