```
import pandas as pd
import os
# Ensure the file path is correct
file_path = '/content/drive/MyDrive/titanic.csv'
# Load the CSV file into a DataFrame
df = pd.read_csv(file_path)
filtered_df = df[df['Age'] > 30]
missing_values = df.isnull().sum()
print(missing_values)
→ Passengerid
                  0
    Age
    Fare
                0
    Sex
                0
    sibsp
                0
    zero
    zero.1
               0
    zero.2
    zero.3
    zero.4
                0
                0
    zero.5
               0
    zero.6
    Parch
                0
               0
0
0
    zero.7
    zero.8
    zero.9
                0
    zero.10
    zero.11
                 0
                 0
    zero.12
    zero.13
                0
               0
0
    zero.14
    Pclass
    zero.15
                0
    zero.16
                 0
                 2
    Embarked
    zero.17
                 0
                 0
    zero.18
    Survived
    dtype: int64
```

Start coding or generate with AI.

```
# b. Fill missing values in the 'Age' column with the mean
df['Age'].fillna(df['Age'].mean(), inplace=True)
```

df.dropna(subset=['Fare'], inplace=True)

```
# Step 4: Calculate summary statistics
# a. Descriptive statistics for the entire DataFrame
summary_stats = df.describe()
print("Summary statistics for the DataFrame:\n", summary_stats)
```

print(Summary Statistics for the Datarrame. (II , Summary_Stats)											
→ *											
	ŭ		_	309.0000	_				1309.00000	•	
				29.5031				.355997	0.49885		
	mean std	378.020061		12.9052				. 478997	1.041658		
						0.000000		. 478997	0.000000		
	min			0.1700		7.895800		.000000	0.000000		
	25%	328.00		22.0000		14.454200					
	50%	655.00		28.0000				000000	0.000000		
	75%	982.000000		35.0000				000000	1.000000 8.00000		
	max	1309.000000		80.0000	100 512	512.329200		.000000	8.00000	10	
		zero	zero.1	zero.2	zero.3	zero.4		zero.12	zero.13	zero.14	\
	count	1309.0	1309.0	1309.0		1309.0		1309.0		1309.0	
	mean	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	std	0.0	0.0	0.0		0.0		0.0		0.0	
	min	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	25%	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	50%	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	75%	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
	max	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
		_	-	4.5	4.5			4=	40	,	
		Pclass			zero.16					\	
	count	1309.000000		1309.0	1309.0	1307.000		1309.0	1309.0		
	mean	2.294882		0.0	0.0	1.492731		0.0	0.0		
	std	0.837836		0.0	0.0	0.81462		0.0	0.0		
	min	1.000000		0.0	0.0	0.00000		0.0	0.0		
	25%	2.000000		0.0	0.0	1.000000		0.0	0.0		
	50%	3.000000		0.0	0.0	2.000000		0.0	0.0		
	75%	3.000000		0.0	0.0	2.000		0.0	0.0		
	max	x 3.000000		0.0	0.0	2.000	1000	0.0	0.0		
	Survived										
	count										
	mean	0.261268									
	std										
	min 0.000000										
	25% 0.000000										
	50% 0.000000										
	75%		0000								
	max		0000								

[8 rows x 28 columns]

```
# b. Specific statistics for the 'Age' column
mean_age = df['Age'].mean()
median_age = df['Age'].median()
std_age = df['Age'].std()
```

```
print(f"Mean Age: {mean_age}")
print(f"Median Age: {median_age}") # Removed extra indent here
print(f"Standard Deviation of Age: {std_age}")
```

→ Mean Age: 29.50318563789152

Median Age: 28.0

Standard Deviation of Age: 12.905240585464622