

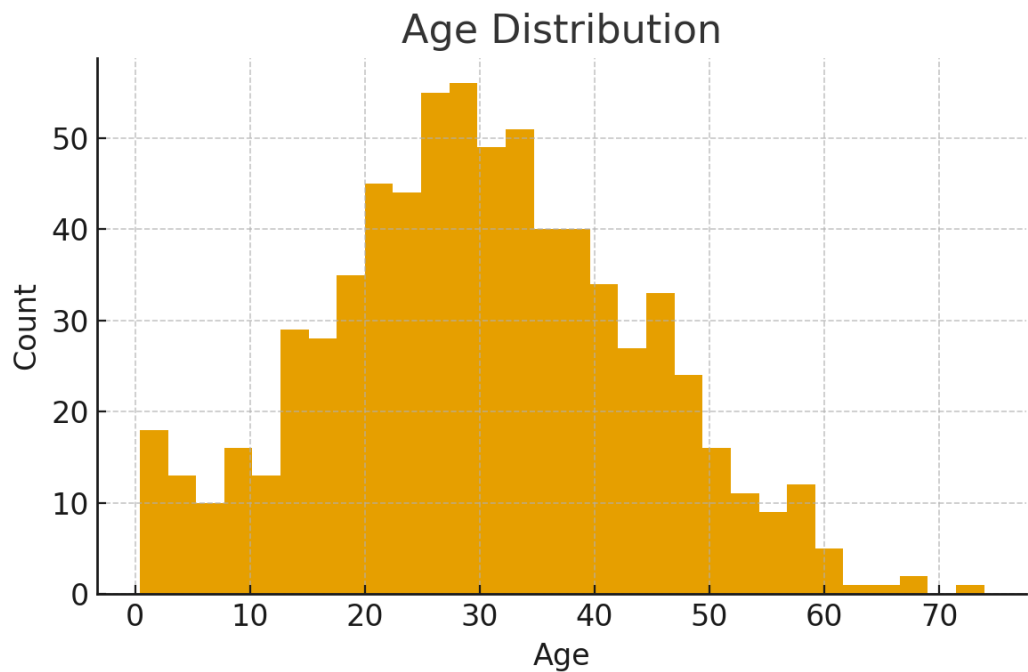
# Titanic - Exploratory Data Analysis (Synthetic Dataset)

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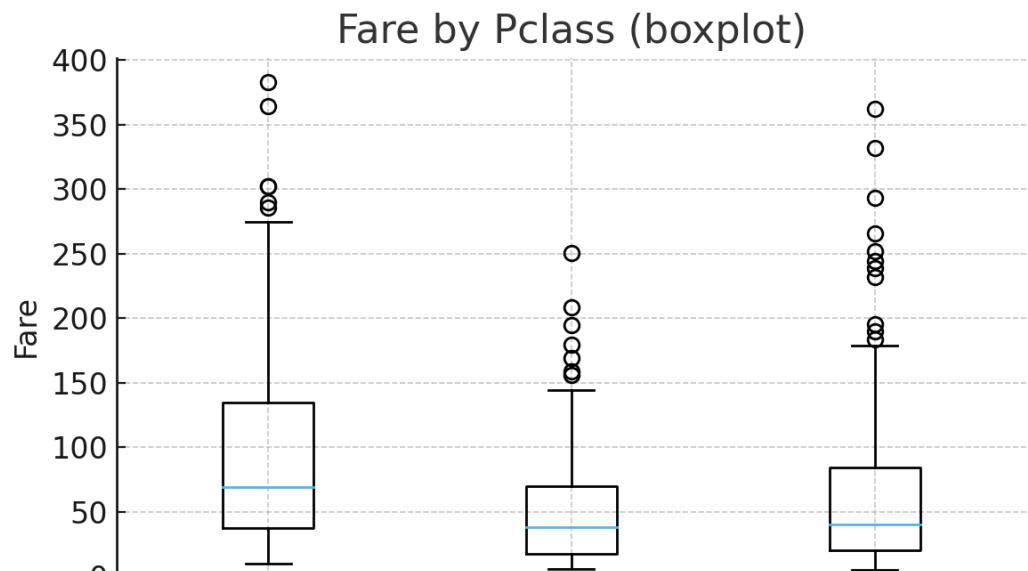
Total passengers: 891  
Average Age: 30.13  
Average Fare: 66.17  
Overall survival rate: 30.30%

- Top insights:
- Females have a significantly higher survival rate than males.
  - Higher class (Pclass=1) passengers have higher survival rates.
  - Fare is positively correlated with survival probability in this synthetic data.
  - Age has missing values (~20%), consider imputation in modeling.

## Age Distribution



## Fare by Pclass



**Corr Matrix**

