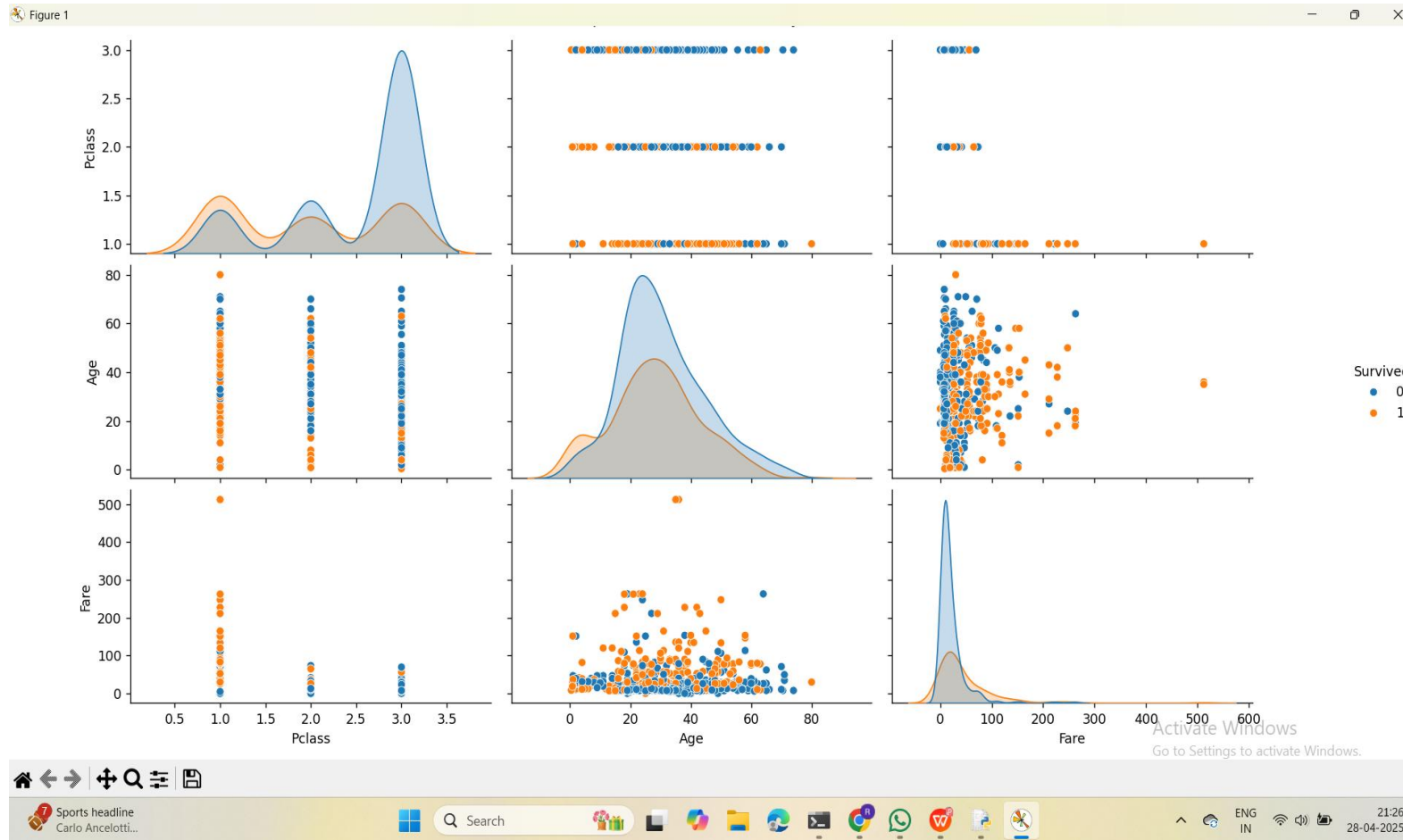# Exploratory Data Analysis

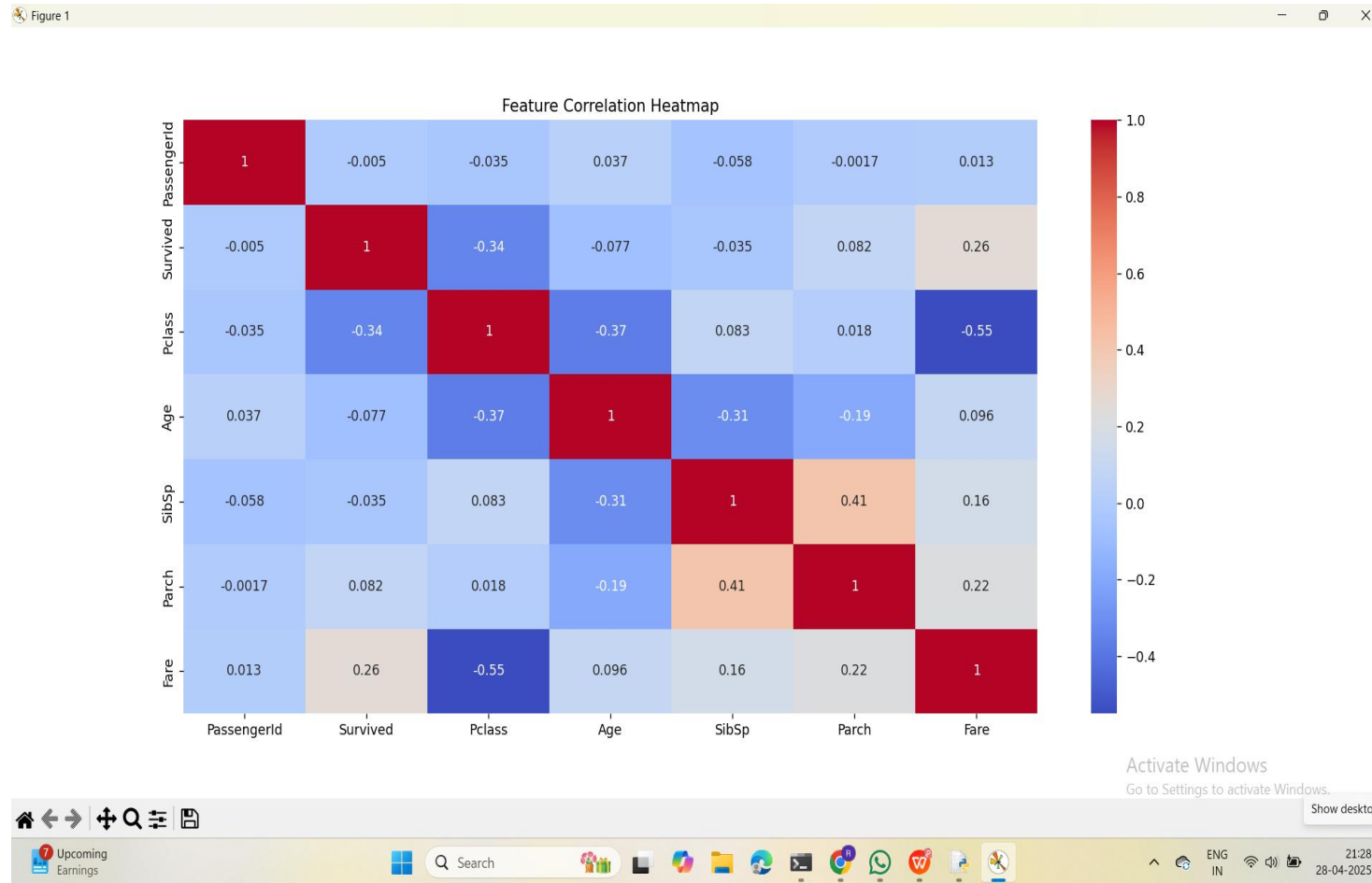DATASET - train.csv(kaggle)

-RAKSHITHA L

Pairplot

OBSERVATION:
- Survivors tend to have higher Fare values.
- Pclass 1 passengers are more likely to survive.
- No strong relationship visible between Age and Survival at a glance.
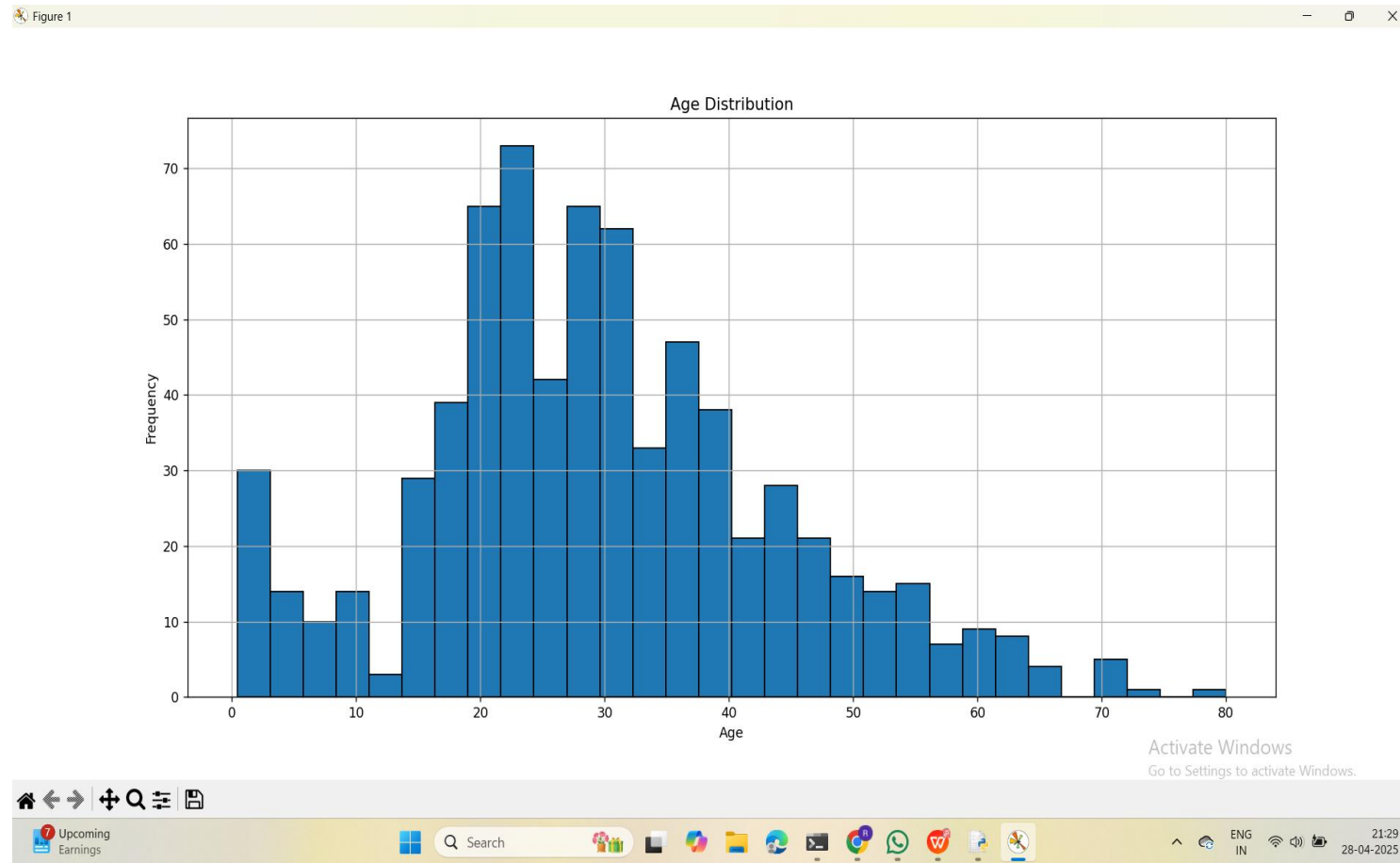
Heatmap

OBSERVATION:
- 'Pclass' negatively correlates with 'Survived' (higher class, higher survival).
- 'Fare' positively correlates with 'Survived'.
- 'SibSp' (siblings/spouses aboard) and 'Parch' (parents/children aboard) are slightly correlated.
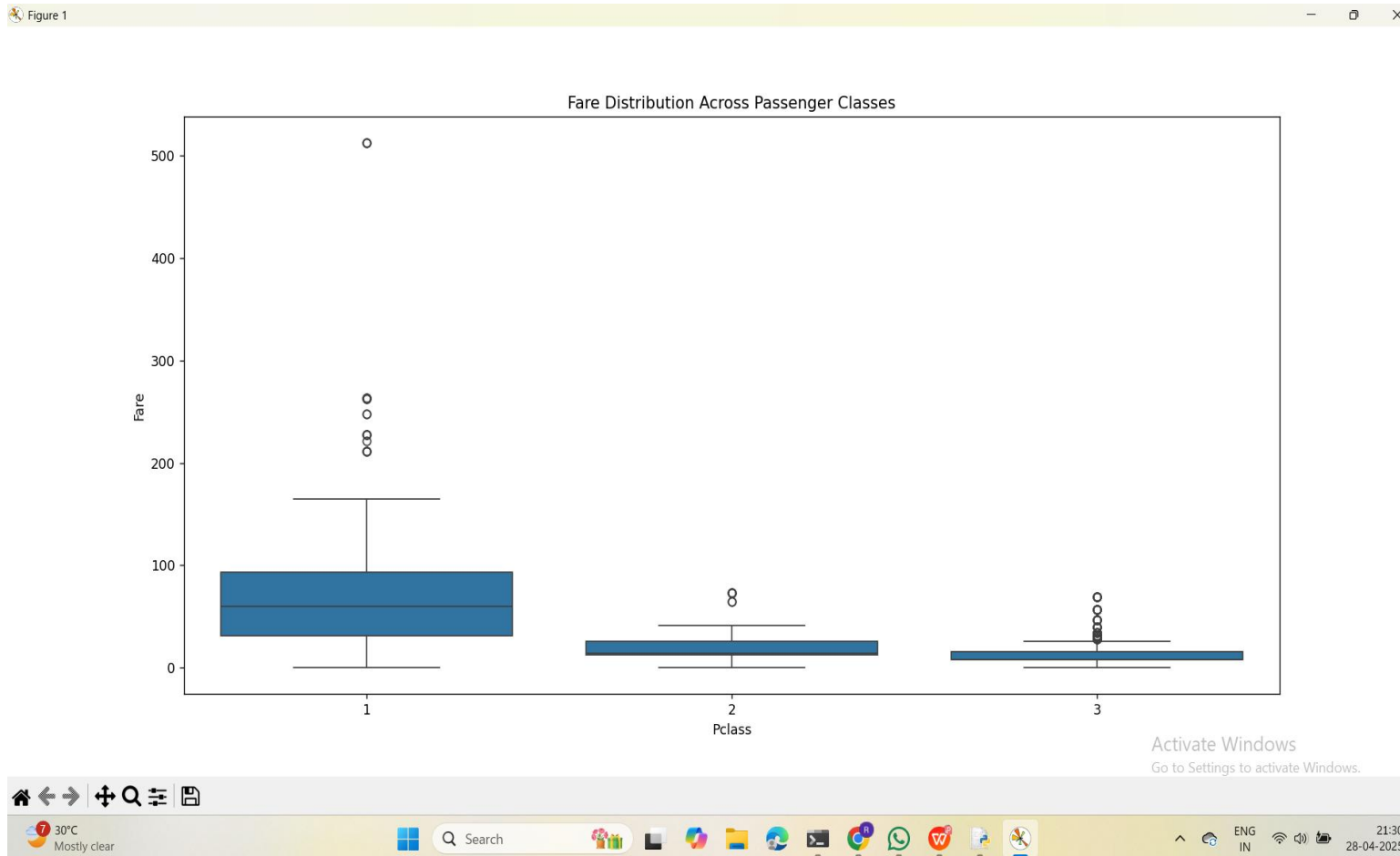
Histogram

OBSERVATION:
- Most passengers are between 20–40 years old.
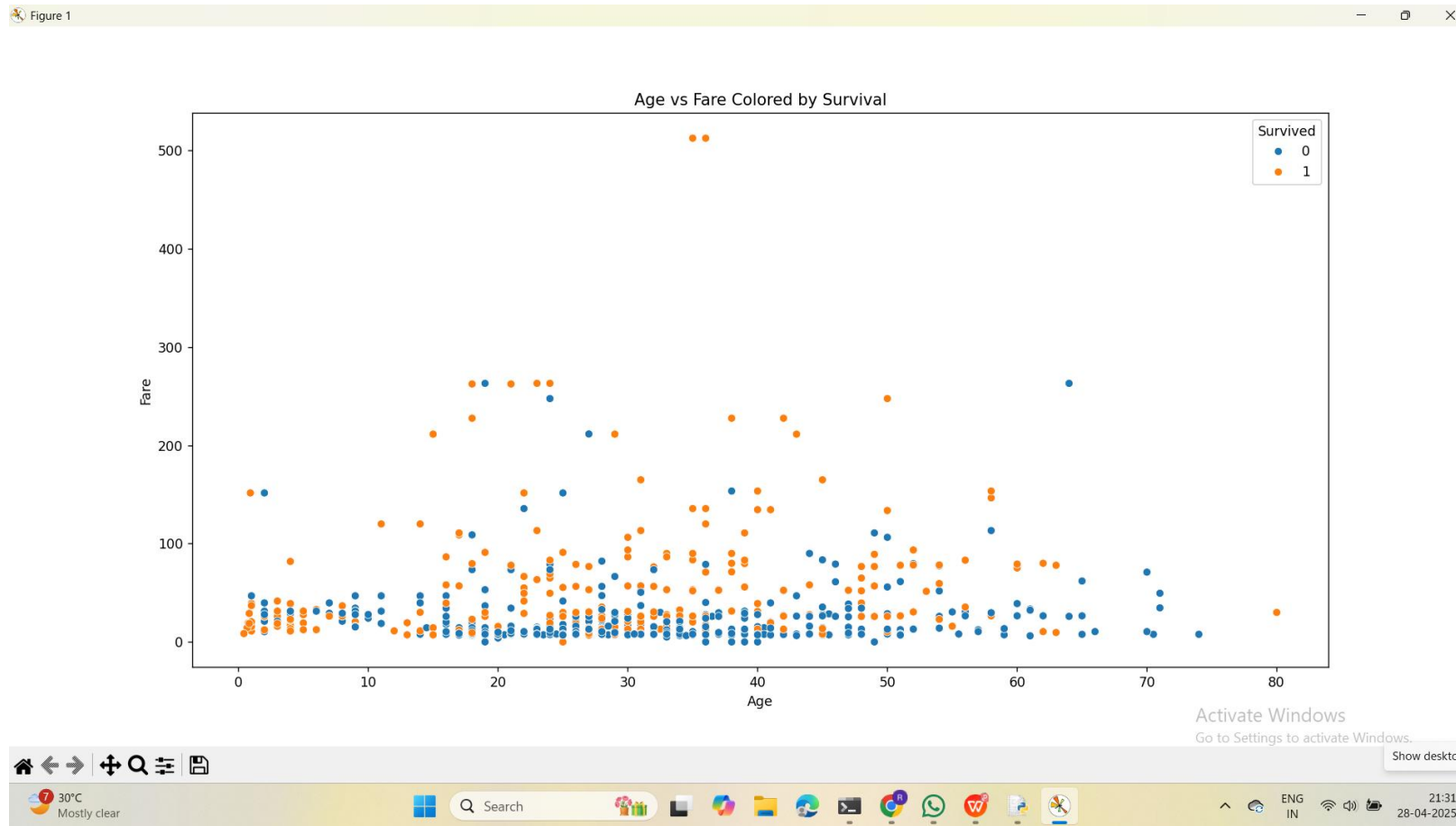- There are few infants and very old passengers.

Boxplot

OBSERVATION:
-1st class fares are much higher with some very expensive outliers.
- 3rd class fares are clustered towards the lower end.

Scatterplot

OBSERVATION:
- Many survivors are clustered at higher fares.
- Younger passengers paid lower fares generally.
- Some very expensive tickets are associated with survival.