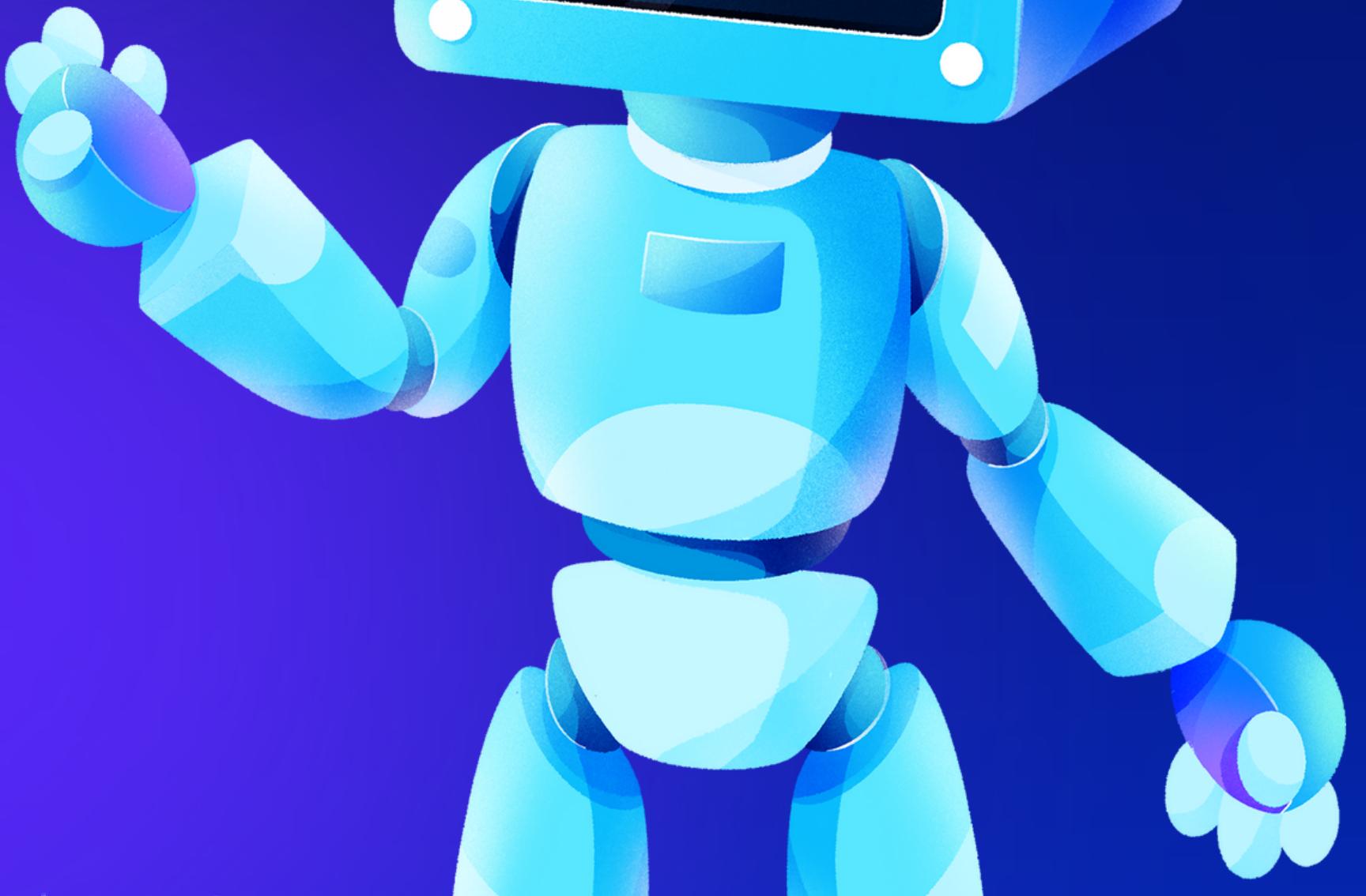
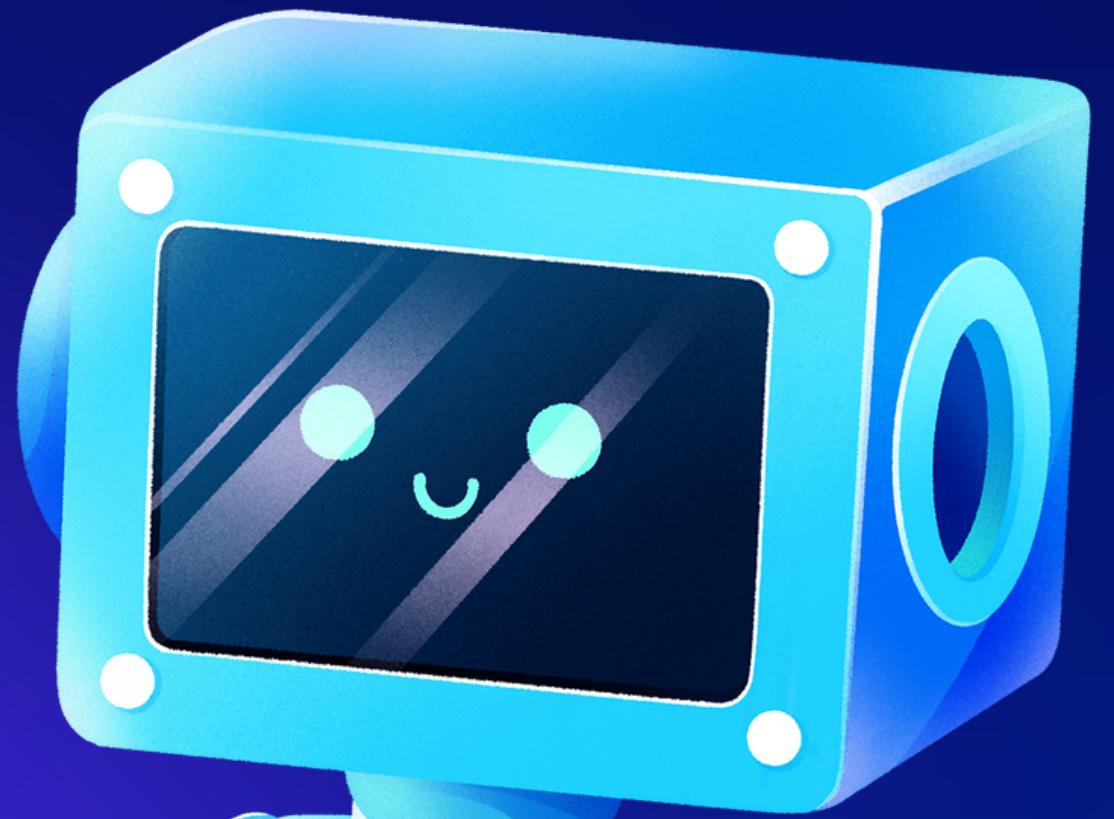
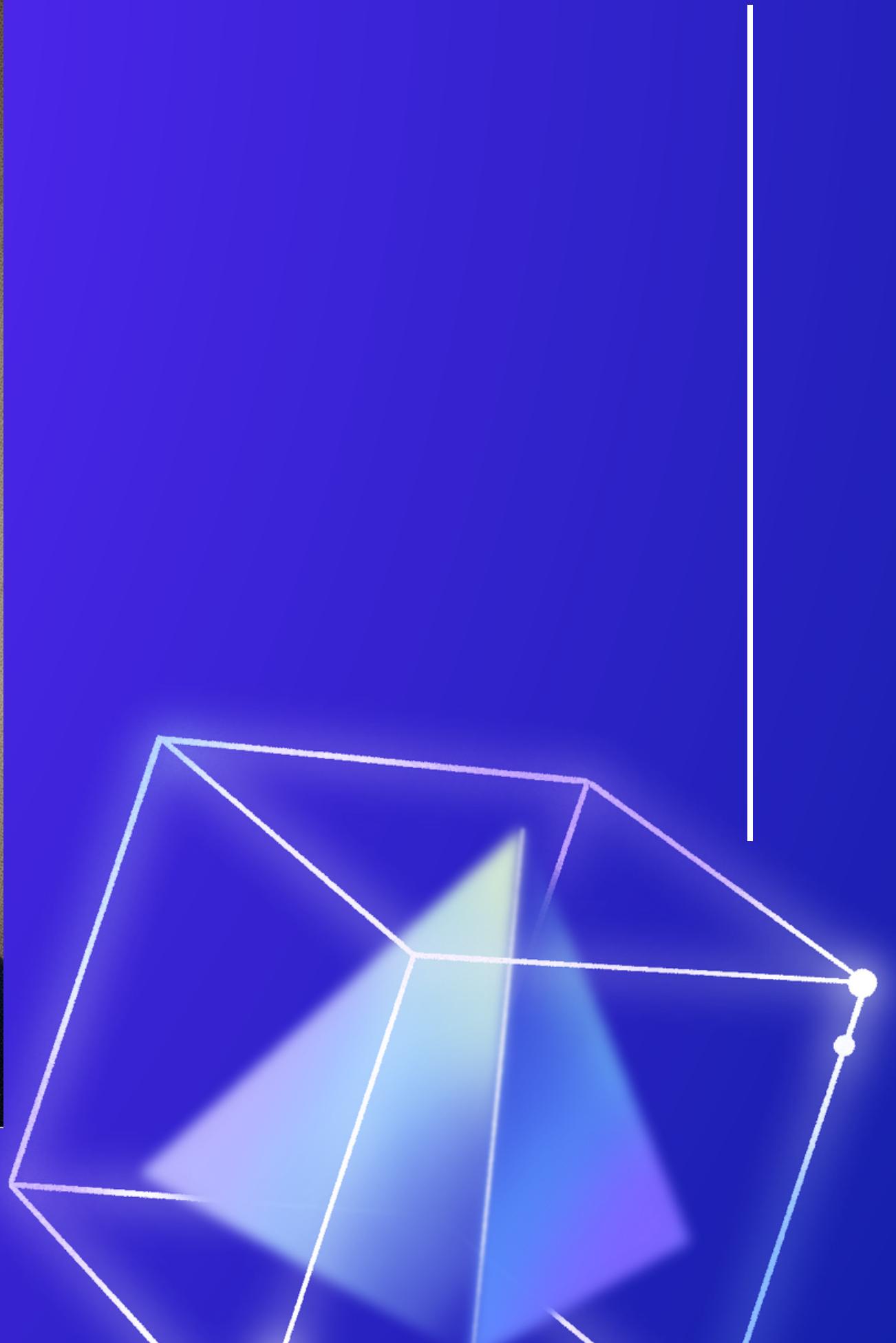


EXCHANGE EXPLORER

SPRINT 3

By Deepa Anjanamurthy





BASELINE MODEL

Polynomial Regression - Degree 2

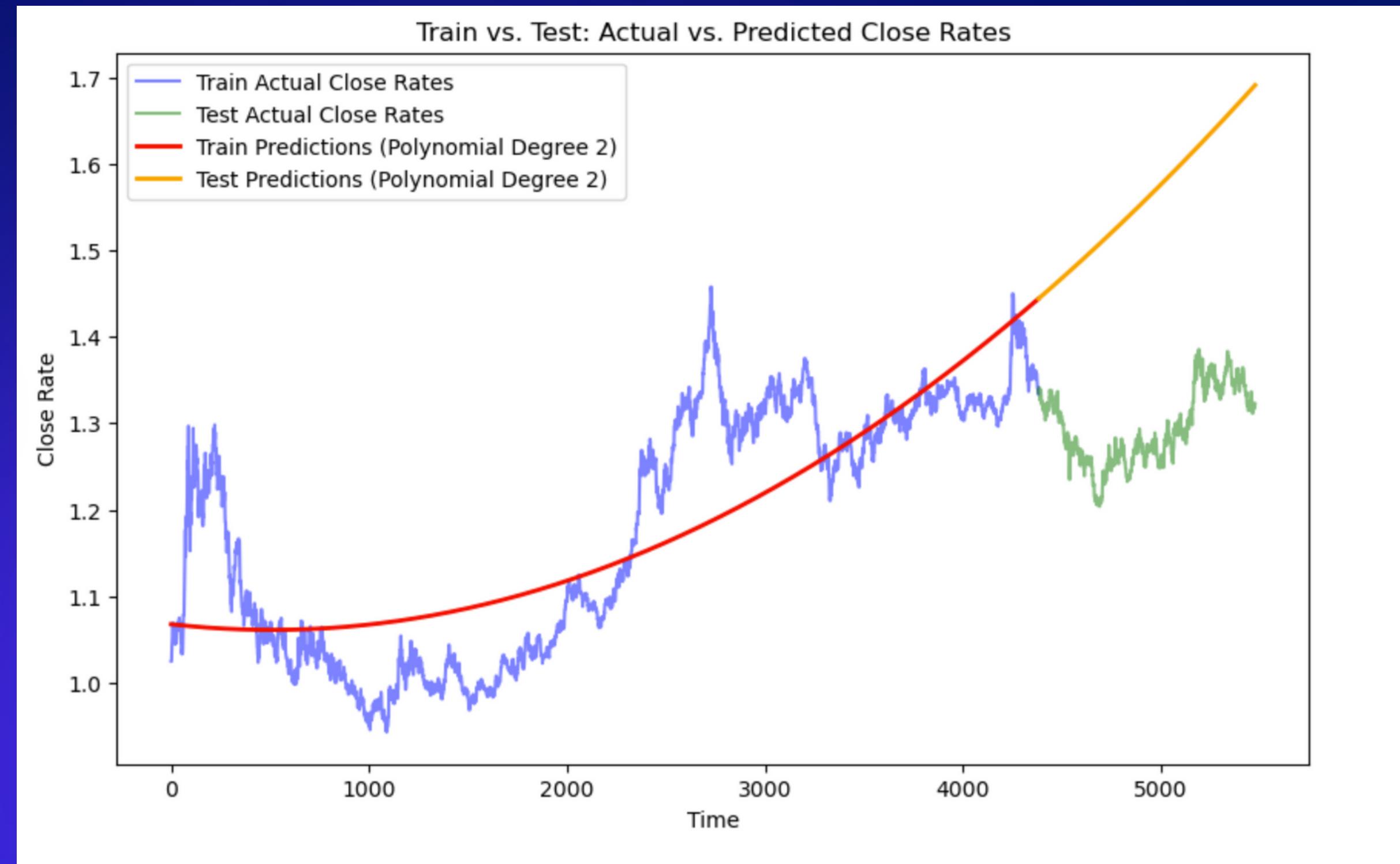
and

Polynomial Regression - Degree 3



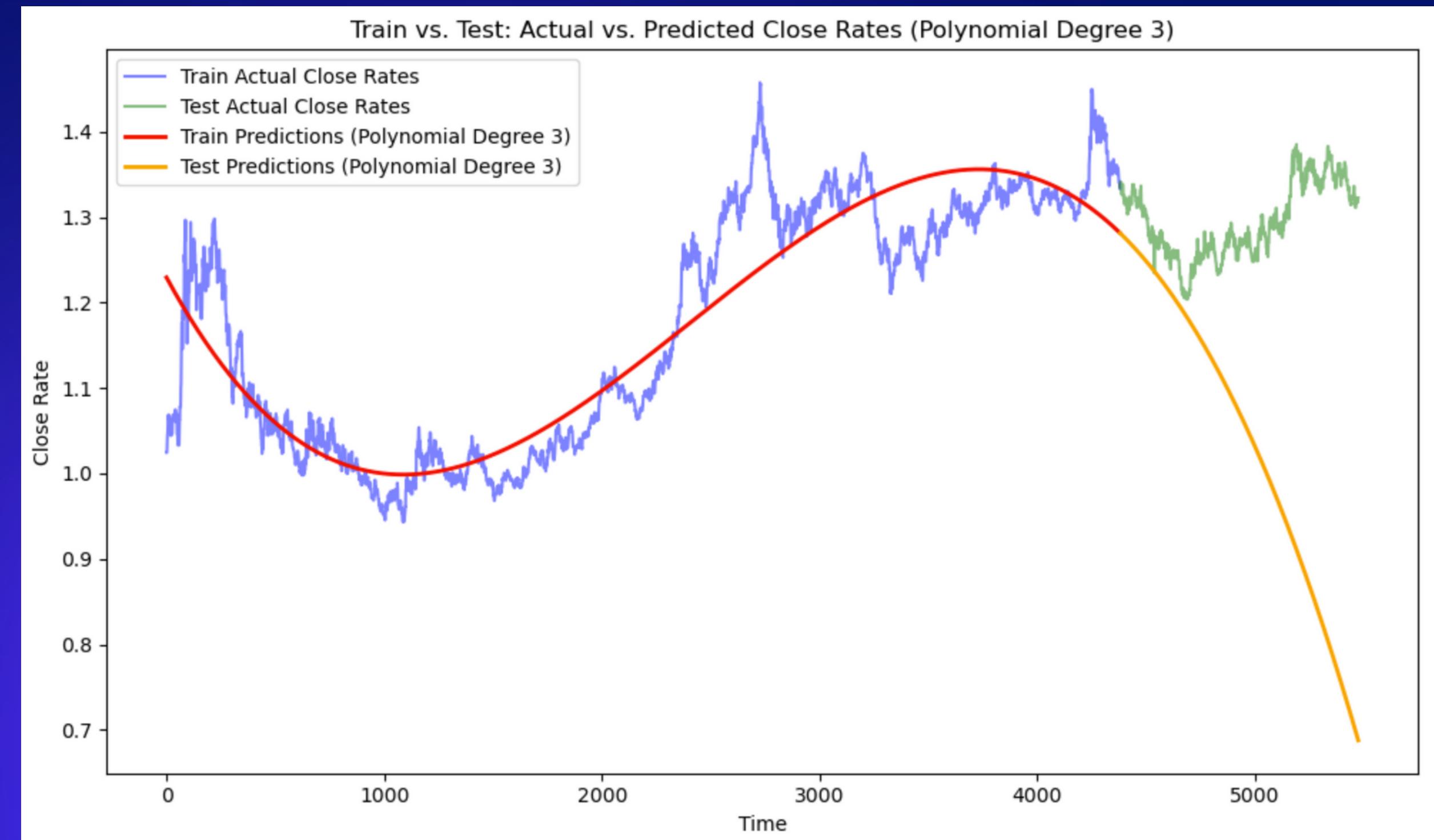
POLYNOMIAL REGRESSION - DEGREE 2

R-SQUARED - 0.659



POLYNOMIAL REGRESSION - DEGREE 3

R-SQUARED - 0.848



TIME SERIES

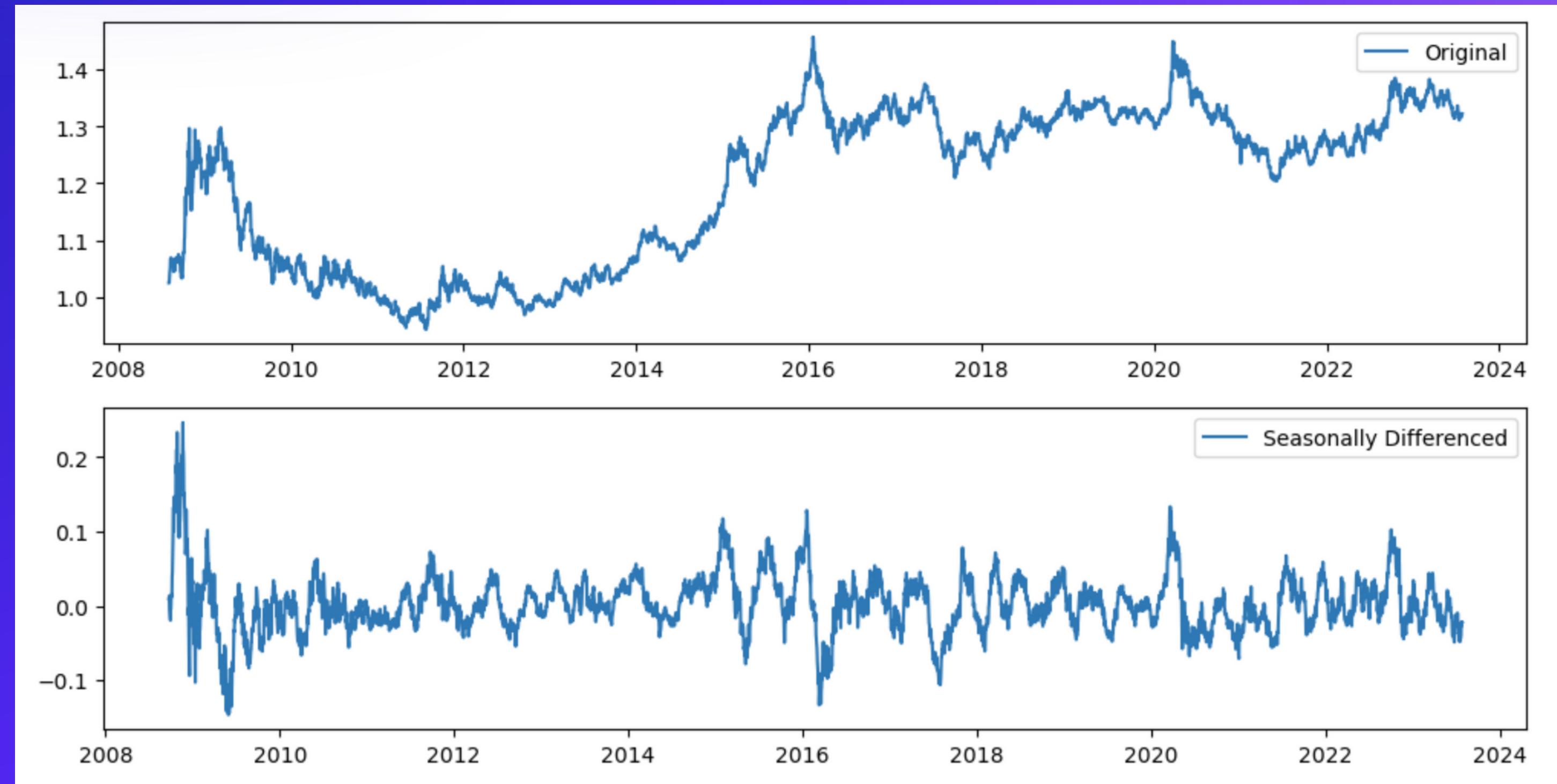
Yearly Analysis - 2022

and

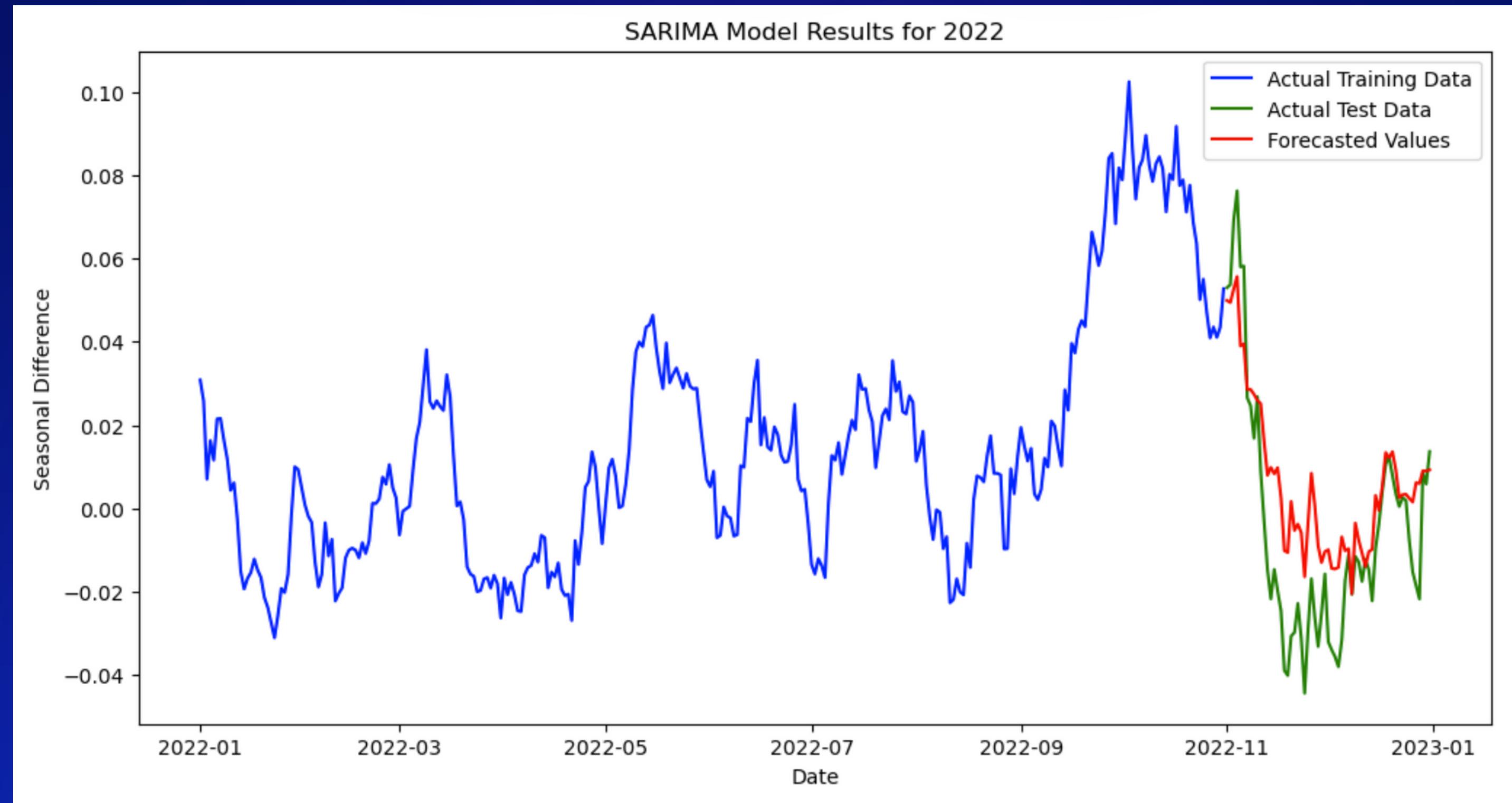
Yearly Analysis - 2021



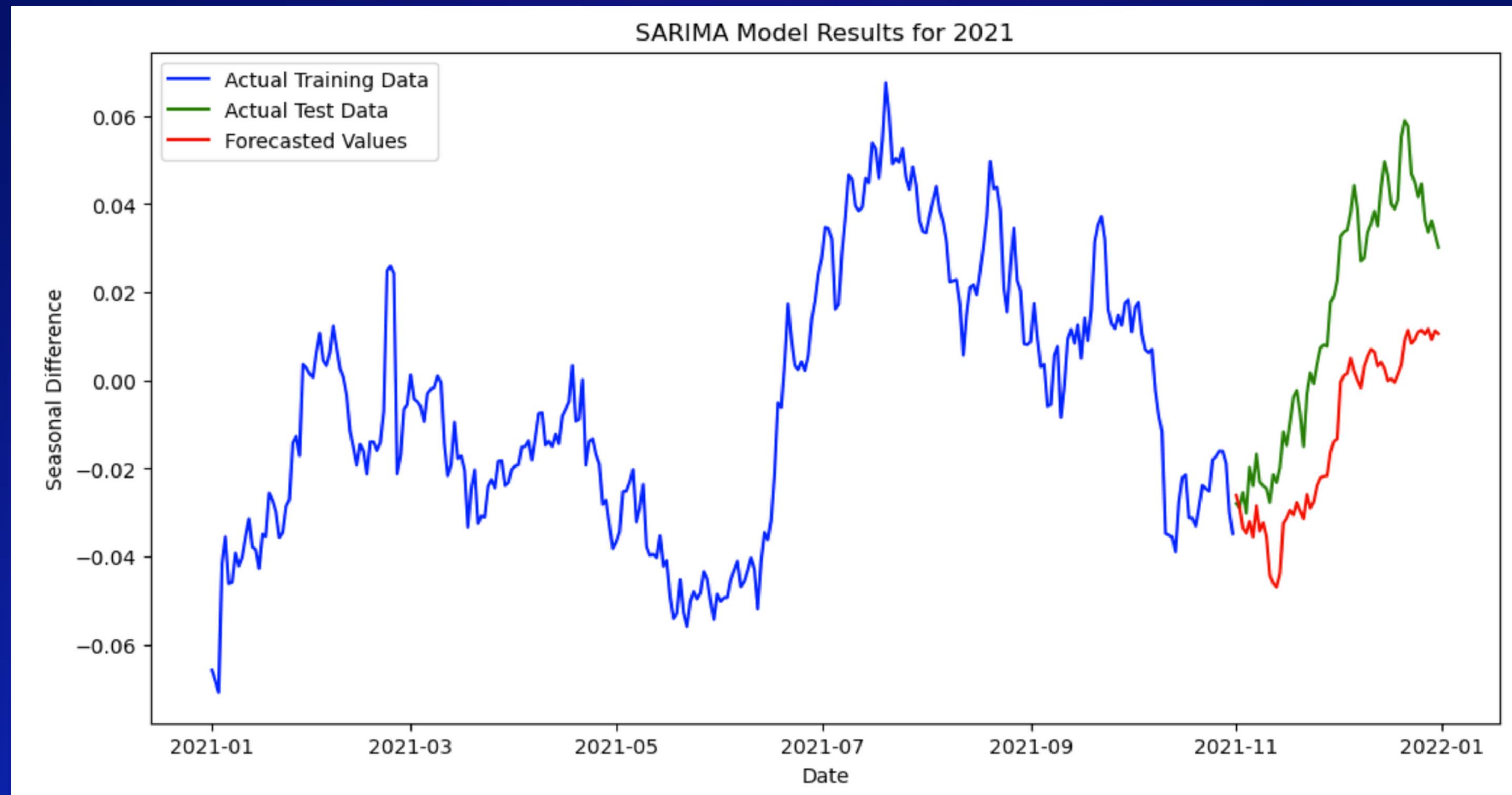
STATIONARITY



TIME SERIES - 2022



TIME SERIES - 2021



DECISION TREE

Best Parameters:

max_depth: 10
min_samples_leaf: 2
min_samples_split: 2

Average MSE:

(5-fold cross-validation)

1.8246013854692527e-05



RANDOM FOREST

Best Parameters:

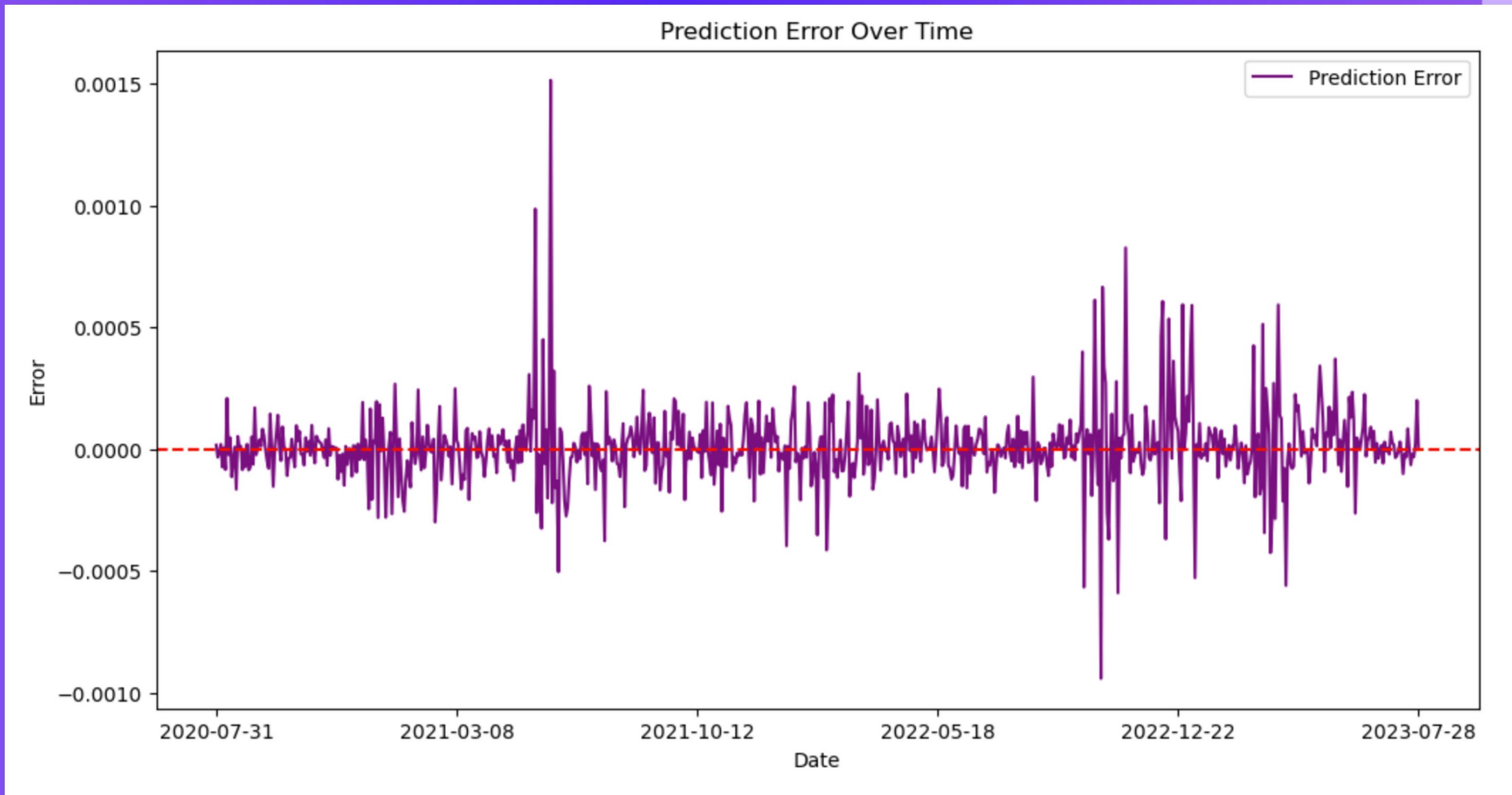
max_depth: 20
min_samples_split: 2
n_estimators: 100

Mean Square Error:

2.4218547594410127e-06



RANDOM FOREST







United States Dollar
April 2, 1792



THANK YOU!

