

Time series analysis and forecasting

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github.com/kek7777/Business_analysis.git

Problem Definition

Predict the daily behavior of the time series for 3 months

Steps

01

Exploratory
Data Analysis

02

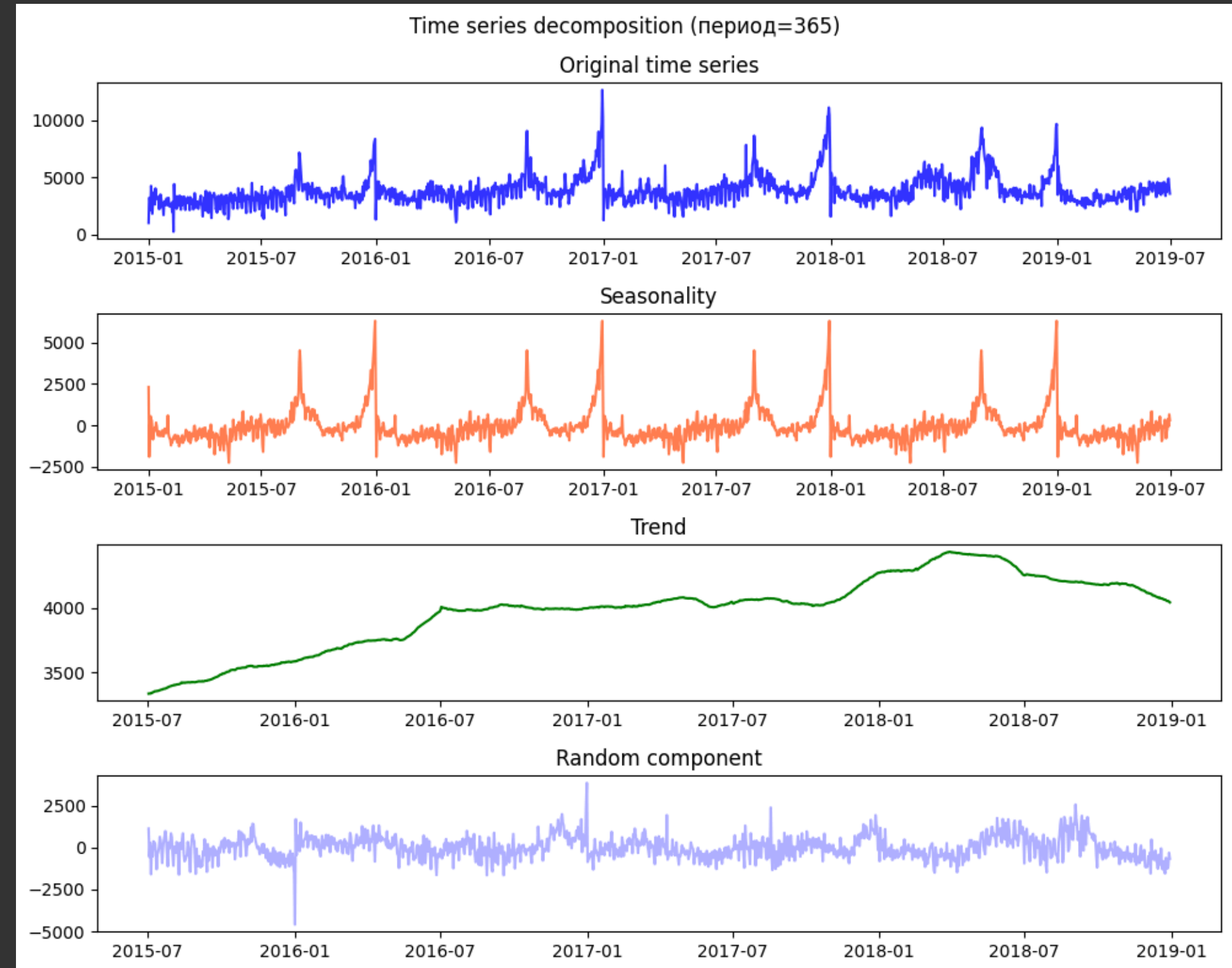
Model Training

03

Forecasting

Exploratory Data Analysis

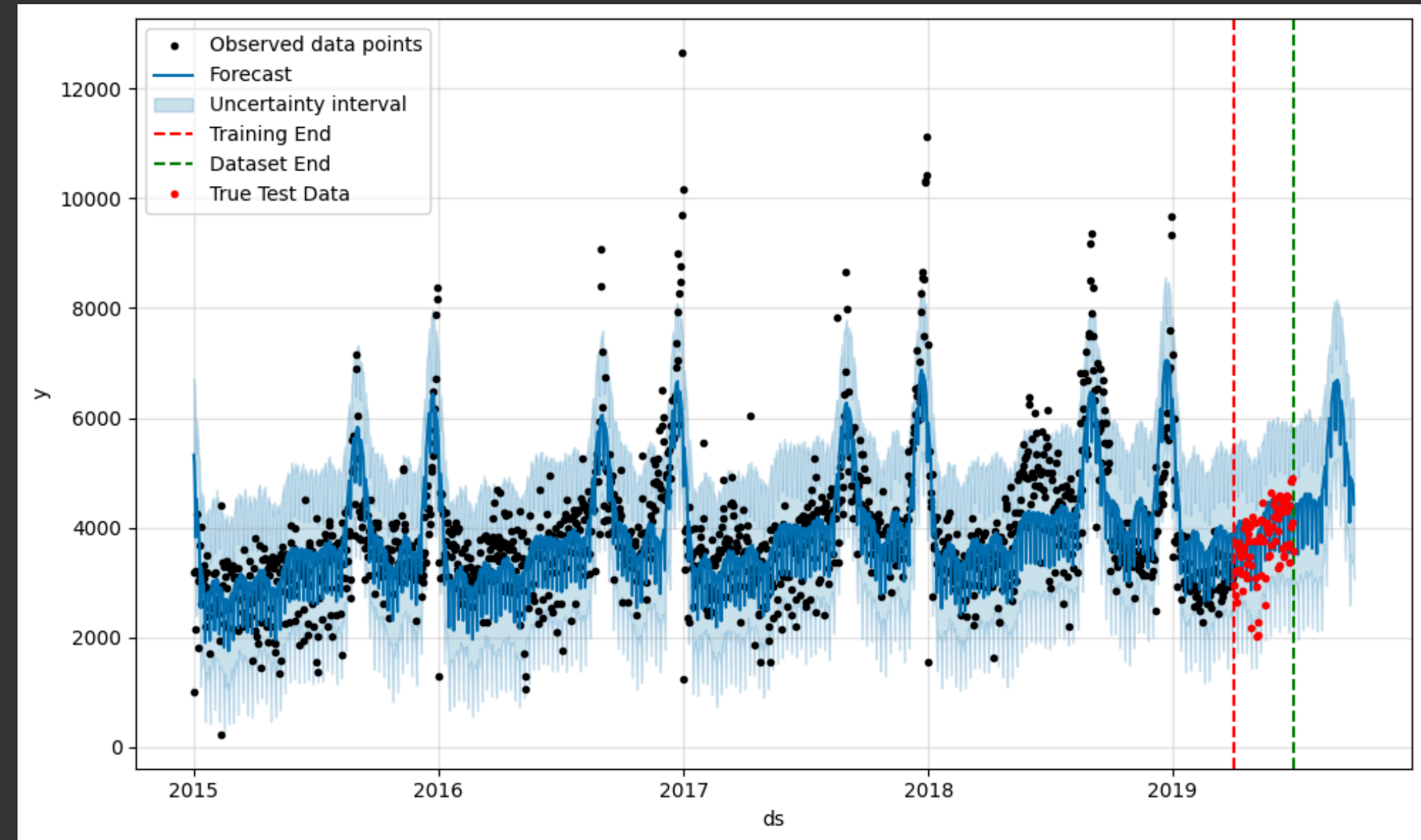
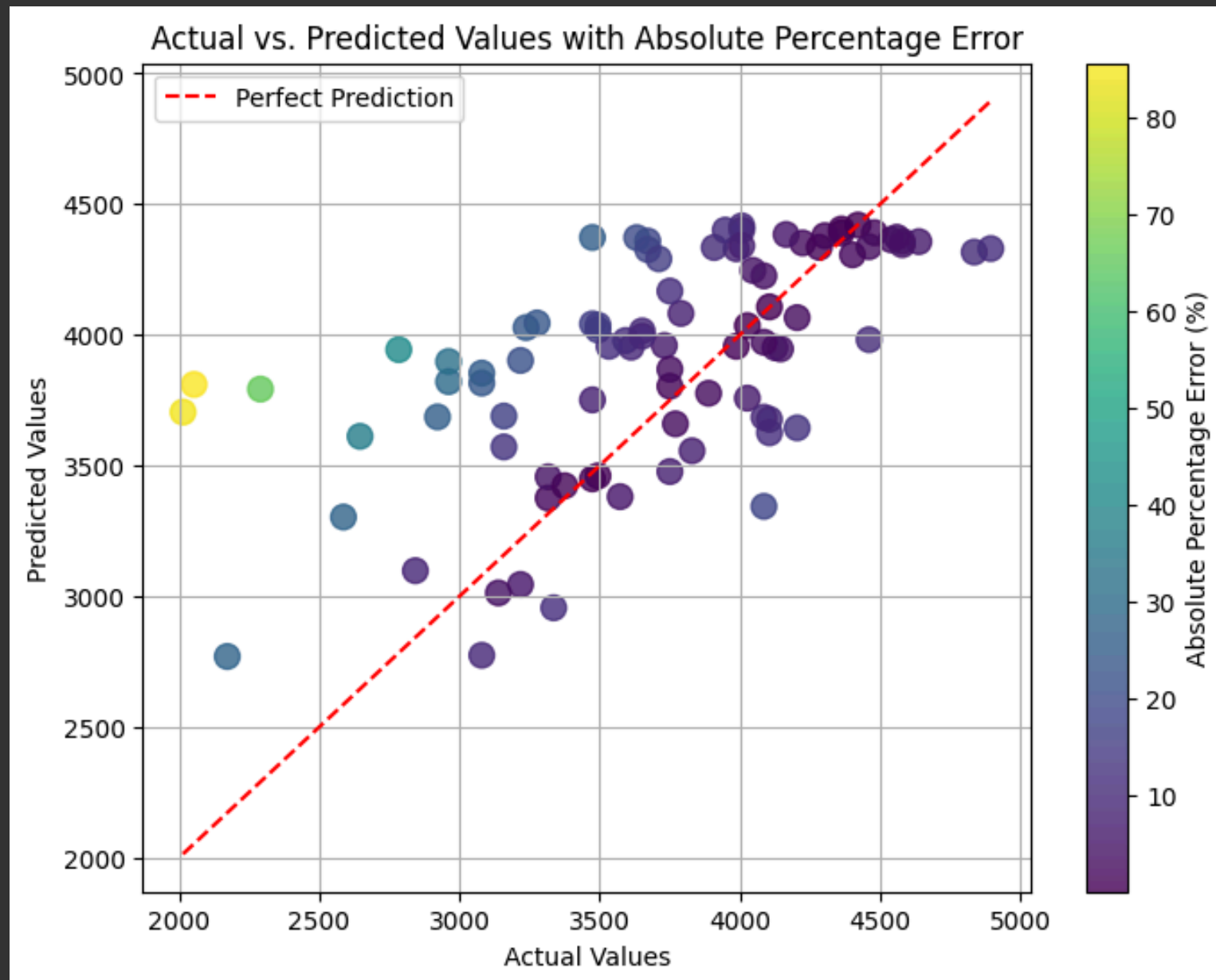
- **Period data :** 4 years 5 months 28 days
- **Trend :** positive upward
- **Seasonality :** yearly
- **Stationarity :** weak



Model training

Model : Prophet

Test Dataset: 90



Metrics : MAPE - 13%
RMSE - 535.44

Forecasting

Period data : 90 days (01.07-28.09.2019)

Trend : positive with a downward trend towards the end of the forecast period

Predicted values : max: 6564
min: 3400
mean: 4877

