Parcel project

Emir Açikgöz

George Ottens

Ismail Böyükşimşek

Laurine Stolpe

Rick Hagenaar

Idriss Bensaga

Introduction

- Rick Hagenaar
- Emir Açikgöz
- George Ottens
- Ismail Böyükşimşek
- Laurine van de Stolpe
- Idriss Bensaga

Content

- Recap
- Predicting time series
- Model implementation
- Planning
- Questions

Recap

- Product owner: PostNL
- Assignment: Predicting the amount of processed packages
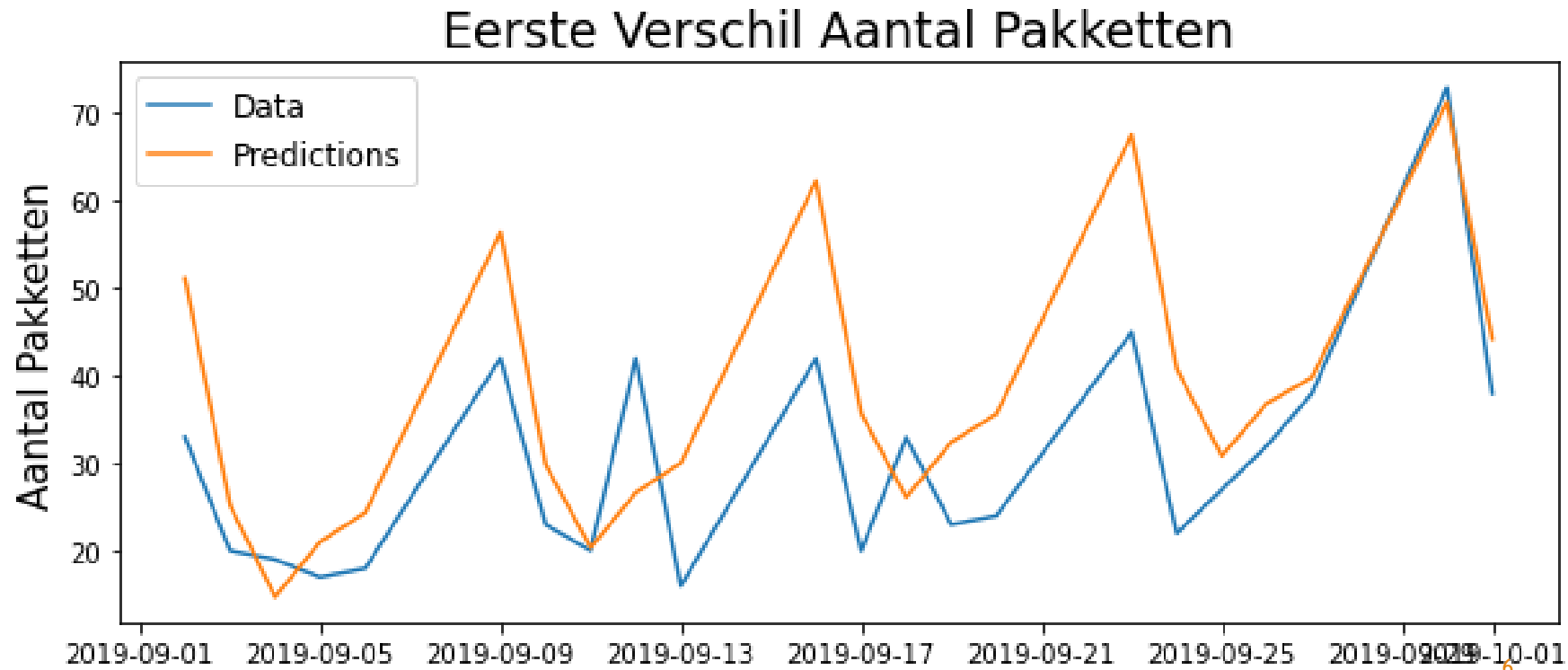- Data: amount of daily packages processed, for 300 customers

Predicting timeseries

- 2 Different kinds of models:
  - Autoregression moving average
  - Multi Variabele Lineaire Regression

Model implementation
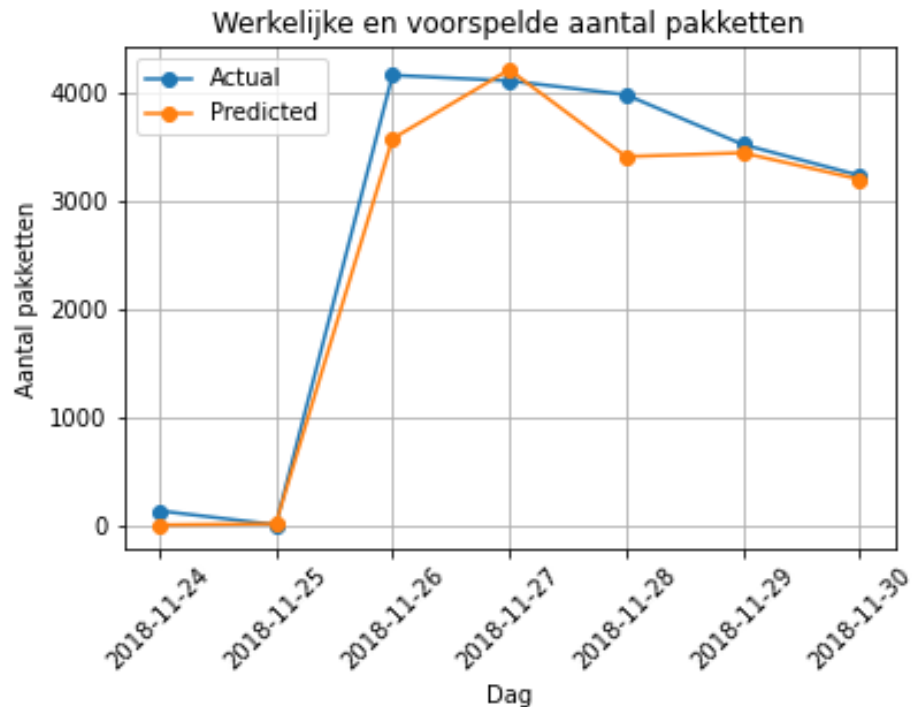
▶ Autoregression Moving Avarage model

▶ Predictions for September 2019

Model implementation

▶ Multi Variabele Lineaire Regression

▶ Prediction for the last week of November 2018

Werkelijke en voorspelde aantal pakketten

▶ Root Mean Squared Error: 318.13378967805477

▶ R2 score: 0.9656203094322737

What we will do for the next week

- ARMA ---> SARIMA
- Features

Questions