**Predict the Pallet Issued for next 6 months**

CHEP issues pallets to its customers (Manufacturers like Coca Cola, Procter and Gamble etc.) for easy movement of manufactured goods to reach retailers and ultimately to end users of the goods. To keep up with the demand from the customers, CHEP wants the forecast of demand for upcoming months.

In this challenge, we try to predict the demand for pallets for next 6 months. We have the data for 10 years (July 2007 – June 2017) aggregated at monthly level.

Use the observations in the train dataset to train your model and predict the issues in the test dataset.

**Data Description**

|  |  |
| --- | --- |
| **Month** | *Last Date of the Month* |
| **TransfersInMonth** | *Total transfers from Manufacturers to Retailers in that month* |
| **BusinessDaysInMonth** | *Total number of business days in that month* |
| **IssuesInMonth** | *Total number of pallets issued by CHEP in that month* |

**Submission**

The participant has to submit a csv file with ***Month*** and ***IssuesInMonth***. Check the Submission.csv for reference.

You also have to submit a zip or tar archive consisting of a text file explaining your approach, details about feature engineering, tools you used and the relevant source codes.

**Evaluation Metric**

1. Submission will be evaluated based on MAPE (Mean Absolute Percentage Error) score. For more information on this metric, [read here](https://en.wikipedia.org/wiki/Mean_absolute_percentage_error).
2. The features developed from feature engineering, data cleaning and coding best practices.

Final score will consist of 70% of Evaluation metric 1 and 30% from Evaluation Metric 2.