AB Analysis - Python Package

User Guide



Steps:

- 1. To install the ab_analysis package follow the steps below -
- 2. Extract the .rar file and keep the folder in your local system
- 3. Go to cmd => type pip install \\...\ab_analysis_version_1_0_2 mention the complete path of zip extract Example, pip install C:\Users\Abhishek.Kumar\Desktop\Python_Modules\ab_analysis\ab_analysis_version_1_0_2
- 4. Now you should have abanalysis module available for use.

#Below is the example of test use of the abanalysis module

Calling AB Module with data

User Provided Values / Data

- no_of_control = # (Provide the number of Controls) , # = Control per Treatment Store
- with replacement = T or F.
- Performance Measure = Units (Constant Values in the Output)
- Lift_Threshold = # (assign number, so while calculating. the lift at store level, it gives lift no. and threshold is manually assigned.)
- *Identifier* = Store (Map the Store Column from Trend Data table)
- Date_Col = Date (Map Date Column)
- Measure = Sales (Map Sales column from Sales data table)
- Cluster = Cluster (Column name should be same as the Cluster Data and Trend Data)
- Lift_Data (all the results are saves under this name which can be defined as per the user)

User input data: trend data / Sales data / Cluster data (Sample Data)

- Avoid using (_df) name like trend_data = trend_df or measure_data = sales_df, instead use trend_data = trend_ori_df
- Data structure of the data should be same. (Column names)
- Use data format as yyyy-mm-dd
- Cluster Column name of **Cluster Date** table should be same as Cluster Column of **Trend Data** table (user can assign other column names as well but both the table should have same column name)
 - Cluster Date
- Use the template for saving dates

Cluster	Test_StartDate	Test_EndDate	Prior_StartDate	Prior_EndDate	YoY_StartDate	YoY_EndDate
Α	9/10/2017	10/7/2017	6/18/2017	9/9/2017	9/11/2016	10/8/2016
В	9/10/2017	10/7/2017	6/18/2017	9/9/2017	9/11/2016	10/8/2016
С	9/10/2017	10/7/2017	6/18/2017	9/9/2017	9/11/2016	10/8/2016
All	9/10/2017	10/7/2017	6/18/2017	9/9/2017	9/11/2016	10/8/2016

- Trend Data
- Avoid using Store values as Integer (1,2, etc). Using store no. as (S001, S002. etc.) is recommended

Store	Trend	Seasonality	Test	Cluster	Changed
1	0.005192776	-0.002199118	FALSE	В	FALSE
2	0.066038106	-0.000428914	FALSE	В	TRUE

- Test / Changed = Boolean
- Trend / Seasonality = Integer
- Cluster = String
 - Sales Data

Store	Date	Sales	
1	5/24/2015	74468.05	
1	5/31/2015	87829.99	
1	6/7/2015	88058.13	