Time Series – Bass Diffusion Model

Assignment due date: Sunday, October 27, 2019, 23:59

Task:

- 1. Download and read the data file (Subs_KOR.xlsx) to your Jupyter notebook (Python) from the following url: http://byungwan.com/class/Subs_KOR.xlsx
- 2. Using the Bass diffusion model, find the market potential (M), innovator parameter (p), and imitator parameter (q)
- 3. Compare p and q from Korea data with those from US data and discuss the results of the comparison
 - * Write a paragraph in a Markdown cell; It is OK even though OLS coefficients are not significant in 5% interval (i.e., p-values are greater than 0.05)
- 4. Predict the number of internet subscribers in 2025
 - * Show the prediction using a figure/plot

Please remember (Important):

- This is an individual assignment
- The copying answers from others will be considered academic cheating and will be sanctioned according to University rules

Submission guideline:

- Save your file using the following conversion: Lastname_Firstname_StudentID.ipynb
- Submit only a Jupyter notebook (Python) file
- All submissions MUST be made electronically through the assignment link on Blackboard
- NO late submission will be accepted

Grading:

Task	Mark
The data is correctly imported and read	/1
The Bass model is correctly applied	/3
$m,\;p,$ and $\;q\;$ are correctly computed	/1
The comparison of p and q are reasonable and logical	/5
The prediction is well performed	/3
Submission guidelines are followed	/2
Total	/15