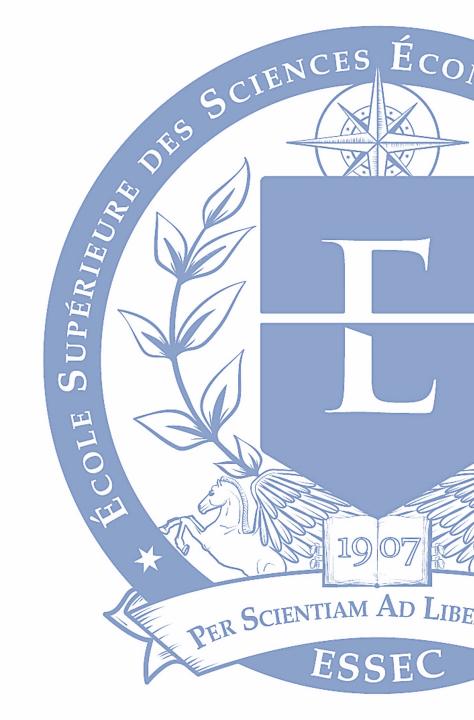
Marketing Analytics

Final Projects

Prof. Dr. Raoul Kübler
Associate Professor of Marketing
ESSEC Business School, Paris

ESSEC BUSINESS SCHOOL



Timing and Rules

- Select a topic as a group (I recommend to have a look at all data sets and topics, then decide within a week)
- Split the project in phases, organize leads for each phase
- Submit project via Moodle January 9, 1pm
- Submissons must include names of all group members and section information for each group member
- Each group member must also hand in a peer evaluation of all other group members



Deliverables





- 1) Executive Summary (max. slides)
- 2) Project outline and agenda (3-5 slides)
- 3) Data Description (4-6 slides)
- 4) Method Description (2-5 slides)
- 5) Results (3-6 slides)
- 6) Implications and Recommendations (3-5 slides)
- 7) Appendix (max. 15 slides)



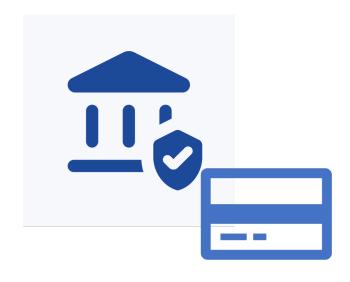


Dashboard

Present Results
Allow User to explore results
Allow user to run predictions/simulations of cases



Topic1: Segmentation and CRM Recommender Tool



- Data from 8800 customers
- Build valid segmentation model
- Assign 150 new customers to segments and decide which credit card limit they shall get
- Build dashboard that allows bank managers to put in customer data and get recommendation which limit he/she should give

Topic1 Data



Topic1 Method Recommendations

- All sorts of cluster analysis (e.g. k-means, etc.)
- Leverage distance measures to classify new customers to belong to segments or deliver product recommendations



Topic 2: Online Ad Click Predictor



- Consumer click data for ad campaign with 18000 observations
- 2000 consumer profiles to predict click/no click
- Consumer profile and order data
- Develop model that predicts click/conversion
- Build Dashboard that allows manager to explore predictions



Topic2 Data



Topic 2 Method Recommendations

- Supervised Learning (CART, Forrests, etc.)
- Try Hold-Out Validation to train/fine tune model
- Make predictions for new 2000 customers (I got real data and can then see how well you do)



Topic 3: Airline UGC Dashboard

easyJet







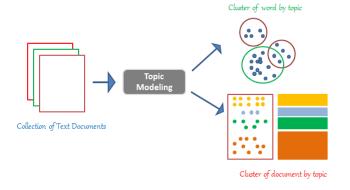


- Identify for each airline topics that are idiosyncratic to positive and negative reviews
- Understand how topics drive satisfaction (OLS that explains rating of a review with topic shares)
- Develop dashboard that tracks on monthly level (2020-today) sentiment per airline and per destination



Topic3 Data Task







Topic 4: MindSet Metrics





- Flavored cold tea drink developed and marketed by German HipHop/Influencer
- Daily Sales Data for 1100 consecutive days
- Includes data for diverse ad channels
- Includes Mindset Metric Data
- Need to model effects alongside the funnel and understand direct and indirect effects to identify KPIs
- Build dashboard with KPIs



Topic4 Data



Topic4 Method Suggestions

- Linear Regression Models
- Account for direct and indirect effects
- Take possible lag effects into consideration
- Mindset Metrics may be interdependent



Topic 5: Energy Drink Rol Analysis



- Number 2 Energy Drink
- Weekly Sales and Advertising Data for various channels and 104 weeks
- Need to measure effects for channels and calculate Rol
- Develop dashboard that shows impact of different allocation options
- Dashboard should similarly give optimal allocation recommendation

Topic 5: Data



Topic 5: Methods

- OLS regression model
- Log/Log Specification?
- There maybe interaction effects across channels!



Some shiny tutorials

Youtube Tutorial: How to use R-Studio with Shiny

Youtube Long Tutorial: Dashboard with Shiny

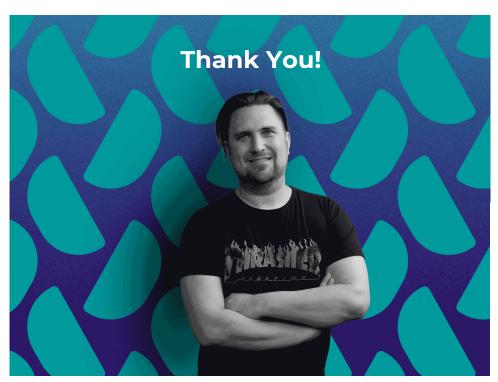
Youtube Tutorial: Shiny and ChatGPT

Shiy Tutorial by R-Posit

Shiny CheatSheet



Questions? Do not hesitate to contact me through the forum





Join more than 4000 other readers and follow "Tales From the Rabbit Hole" my Linkedin Newsletter

