Scenario



You are part of Schahl holding rean at National Lity and Mou Teach abeen asked to create a customer propensity model for a new product, specifically a line of credit against a household's used car. Since the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in pilot, you are asked to identify the next 100 custome at the line of credit product is only in

You are asked to examine the historical data from 4000 previous calls and mailings for the line of credit offer. Using this historical data, and any supplemental data, create a propensity model, evaluate it and identify by uniqueID the top 100 households to contact from the prospective customer list. Additionally, bank executives are eager to learn more about the customer profile for historical and top prospective customers. As a result, variable importance and sound EDA will aid the presentation. Your team will need to turn in code and PowerPoint slides.

Data

Source: https://www.kaggle.com/kondla/carinsurance

Supplemental data represents fictitious 3rd party data that the bank would purchase to improve the model's accuracy.

Example Abridged Data

	Communicatio	LastContactDa	LastContactMont		
HHuniqueID	n	у	h	CallStart	Y_AccetpedOffer
				13:45:2	
HHd4d0af8c72	telephone	28	jan	0	0
				14:49:0	
HH8d3e87c164	NA	26	may	3	0
				16:30:2	
HHdd53ef1db6	cellular	3	jun	4	1
				12:06:4	
HH6fa0de6516	cellular	11	may	3	1
				14:35:4	
HHeb436ca7cf	cellular	3	jun	4	0
HH5119beb3c				14:58:0	
d	cellular	22	may	8	1

Criteria for Success

The presentation will be evaluated on a Pt scale for each of the following diteriap

- Organization Was the presentation well organized?
- Delivery Was the content delivered clearly and persuasively with the audience in mind?
 Delivery Was the content delivered clearly and persuasively with the audience in mind?
- **Documentation** Was the data mined to support the conclusion?
- Data Mining Process Did the team approach the problem similar (as applicable) to steps outlined in page 9 of the book nat powcoder

Another resource may be a public kaggle kernel

Keep in mind this may not be helpful but code can be examined for additional ideas.

https://www.kaggle.com/kondla/simple-random-forest-on-insurance-call-forecast/code