

Approved Conversion rate % by Campaign-A 41.37931034482759% Approved Conversion rate % by Campaign-B 34.07821229050279% Approved Conversion rate % by Campaign-C 32.67141251405021% Looking at the Conversion percentages campaign-A has done an excellent job compared to campaign-B and campaign-G Business Questions !!! 1. How to optimize the social ad campaigns for the highest conversion rate possible. (Attain best Reach to Conversion ratio Conversion ratios). • In order to optimize the social ad campaigns for best results in terms of conversion rates or click through rates ,it is best if we population(either male or female) with interest codes 15-30 of age group 30-34. In addition to this, as we know impressions, socilicks and conversions are directly proportional, showing ads only to this category of people will save us money as the conversion from them. 2. Finding the perfect target demographics with the appropriate clickthrough rates. • age group: 30-34 • Interest code: 15-30 • Money needed to spend for these demographics will be less to achieve more clicks.	Total Convertion rate % b	mpaign-B 0.024408887246319507% mpaign-C 0.017609288955581687% Dy Campaign-A 51.32743362831859% Dy Campaign-B 27.06653225806452%
1. How to optimize the social ad campaigns for the highest conversion rate possible. (Attain best Reach to Conversion rate to Conversion ratios). In order to optimize the social ad campaigns for best results in terms of conversion rates or click through rates, it is best if we population(either male or female) with interest codes 15-30 of age group 30-34. In addition to this, as we know impressions, scicks and conversions are directly proportional, showing ads only to this category of people will save us money as the converties high for them. 2. Finding the perfect target demographics with the appropriate clickthrough rates. age group: 30-34 Interest code: 15-30 Money needed to spend for these demographics will be less to achieve more clicks. 3. Understanding the ideal turnaround/decision making time per age group to convert and retarget future social campaign. Ideal turnaround/decision making time per age group cannot be predicted as there no feature present in the data set related to date, time, etc. 4. Comparing the individual campaign performance so the best creative/campaign can be run again with adjusted audience. Campaign-A(916) MACHINE LEARNING QUESTION - 1 (ML1) How would you handle an imbalanced dataset? Imbalanced data are dangerous while evaluating performance metrics. Thus this issue can be solved by few sampling techniques library used for balancing the data set are Imbleam. 1. Over or Up sampling. This technique tries to balance dataset by increasing the size of rare samples, rather than getting rid of absamples. new rare samples are generated. Few up sampling techniques are SMOTETOmek, SMOTE, RandomOverSampler. 2. Under or Down sampling. This technique balances the dataset by reducing the size of the abundant class. This method is used	Total Convertion rate % b Approved Conversion rate Approved Conversion rate Approved Conversion rate	Campaign-C 7.399911278695797% by Campaign-A 41.37931034482759% by Campaign-B 34.07821229050279% by Campaign-C 32.67141251405021%
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