

**"NOTE: All data and labels given in this problem are synthesized and not related to any customer or any real person."**

**Topic :** Account Type Prediction from Deposit Transactions

Nowadays, banks have many types of account that have varying benefits suitable for different types of customers. If we are able to predict the types of accounts from the transaction history of each customer, we will be able to recommend the customer a type of account that is most suitable for their needs. The task is to explore whether the accounts are saving accounts or current accounts from the customer's deposit transactions.

**Provided Data :**

- ❖ File Name : account\_info.csv
  - Description : Dummy demographic information of all dummy accounts
  - size : 5400 rows

Field Name	Data Type	Description
account_no	string	Dummy account number
opn_dt	timestamp	Account open date
cls_dt	timestamp	Account close date
otsnd_bal_amt	decimal(18,2)	Outstanding balance amount
drmt_dys	string	Dormant Days (The total number of days since the account's last active transaction date)

- ❖ Filename: account\_transaction.csv
  - Dummy deposit transaction data of all dummy accounts
  - Period: 8/2016 – 10/2016
  - Size 797089 rows

Field Name	Data Type	Description
account_no	string	Dummy account number
fm_to_account_no	string	From account number (for Credit) or to account number (for Debit)
txn_amt	decimal(18, 2)	Net transaction amount
txn_dt	timestamp	Transaction Date
txn_tm	timestamp	Transaction Time
txn_type	string	Type of Operation <ul style="list-style-type: none"><li>• CR = Credit</li><li>• DR = Debit</li></ul>

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**Training Data File:**

- ❖ Filename: tj\_04\_training.csv
  - Description : The list of account numbers and their corresponding type
  - Size 4320 rows

Field Name	Data Type	Description
account_no	string	Dummy account number
label	string	Account type <ul style="list-style-type: none"><li>• sa (saving account)</li><li>• ca (currency account)</li></ul>

**Test Data File :**

- ❖ Filename: tj\_04\_test.csv
  - Description: The list of account numbers to be predicted
  - Size 1080 rows

Field Name	Data Type	Description
account_no	string	Dummy account number

**Expected Result :**

- ❖ Filename: 4.txt
  - Predicted account type for each account in the test data file
  - Each line is either ca (currency account) or sa (saving account) with no white space.
  - Each line in this file must correspond to the account from the same line in the test data file.

Field Name	Data Type	Description
label	string	Account type <ul style="list-style-type: none"><li>• sa (saving account)</li><li>• ca (currency account)</li></ul>

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**Examples**

File Name : account\_info.csv

3450015338, 2016-10-31 00:00:00.0, 2007-01-29 00:00:00.0, NULL, 1
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Filename: account\_transaction.csv

3450015338, 0, 100, 2016-10-08 00:00:00.0, NULL, DR
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Filename: tj\_04\_training.csv

3450015338, sa
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Filename: tj\_04\_test.csv

3450031111
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3450002222
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Filename: 4.csv

sa
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ca
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