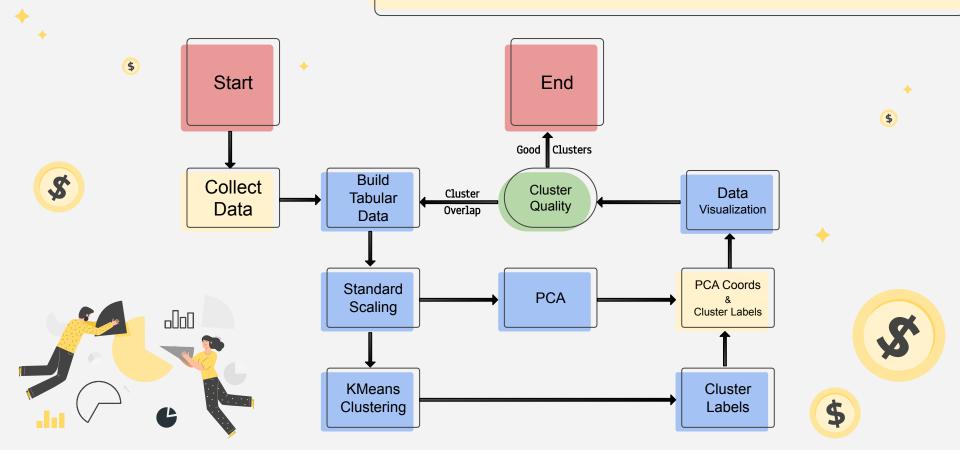
MINI PROJECT III
FINANCIAL
TRANSACTIONS

Lawrence Young & Robyn Mundle



FLOW OF ANALYSIS

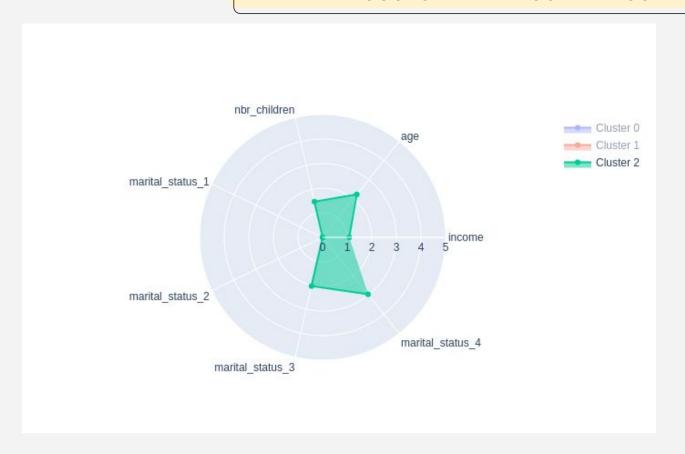


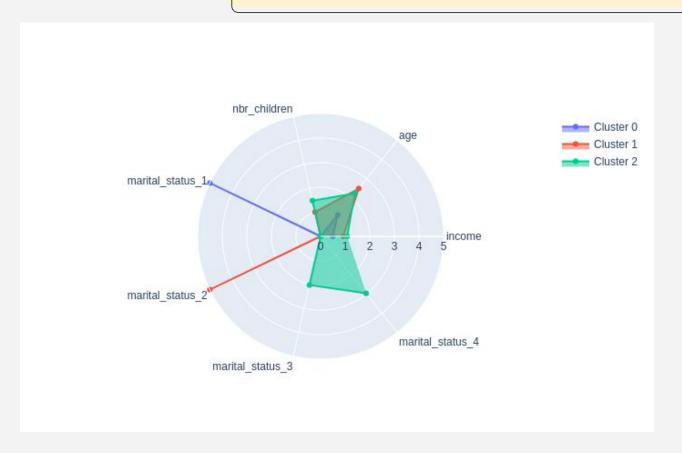
CUSTOMER DEMOGRAPHICS FEATURES

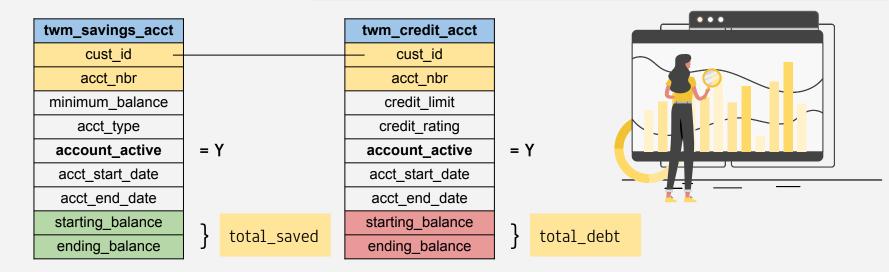
	TWM_Customer Features	Feature Details	Feature Engineering / Modifications	
1	cust_id	Unique ID per customer		
2	income	Income		
3	age	Age in years		
4	years_with_bank	Account's years with bank		
5	nbr_children	Customer's number of children		
6	gender	Gender	Gender	
7	marital_status	Numeric ID for Marital Status	Split into new columns	
8	name_prefix	Preferred name prefix		
9	first_name	Customer's first name		
10	last_name	Customer's last name		
11	street_nbr	Address: street number		
12	street_name	Address: street name		
13	postal_code	Address: ZIP code		
14	city_name	Address: City name		
15	state_code	Address: State Code		









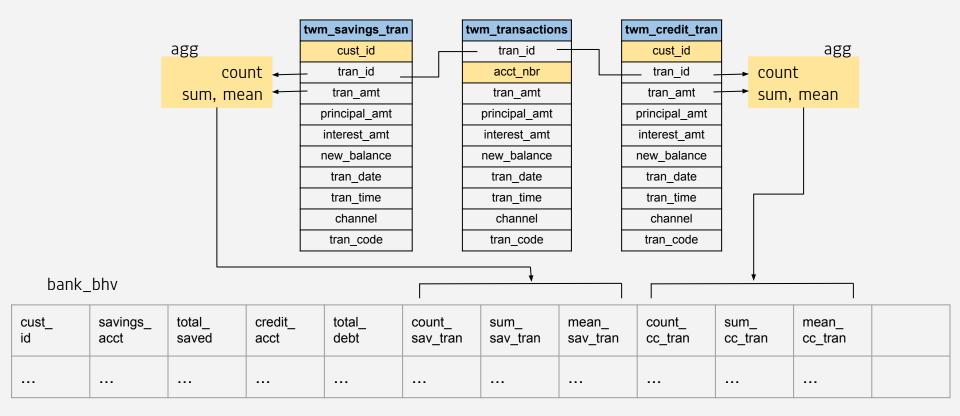


bank_bhv

cust_id	savings_acct	total_saved	credit_acct	total_debt

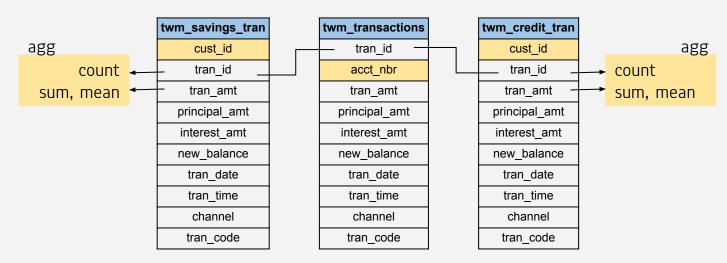


One row per customer



twm_customer cust_id income age years_with_bank nbr children gender marital_status name_prefix first name last name street nbr street name postal code city_name state_code

BANKING BEHAVIOUR FEATURES



bank_bhv

cust_	savings_	total_	credit_	total_	count_	sum_	mean_	count_	sum_	mean_	income
id	acct	saved	acct	debt	sav_tran	sav_tran	sav_tran	cc_tran	cc_tran	cc_tran	

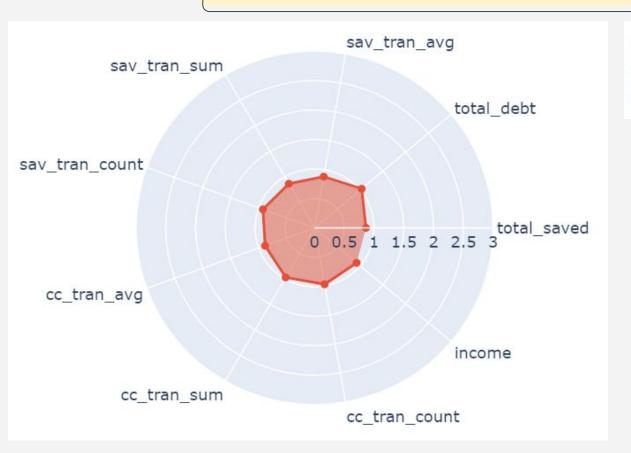


total_ saved	total_ debt	count_ sav_ tran	sum_ sav_ tran	mean_ sav_ tran	count_ cc_ tran	sum_ cc_ tran	mean_ cc_ tran	income



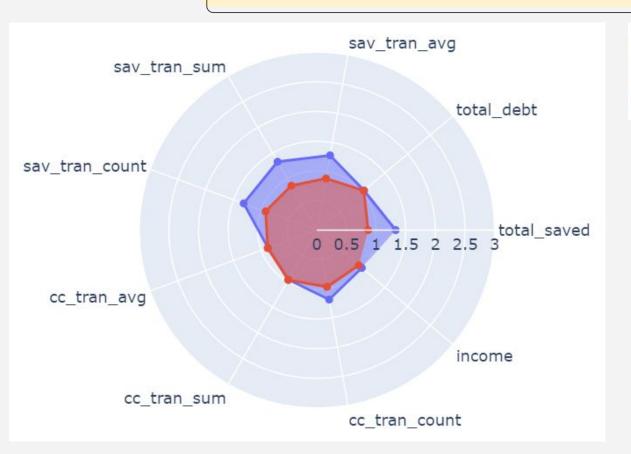


BANKING BEHAVIOUR RADAR



Cluster 0
Cluster 1
Cluster 2

BANKING BEHAVIOUR RADAR



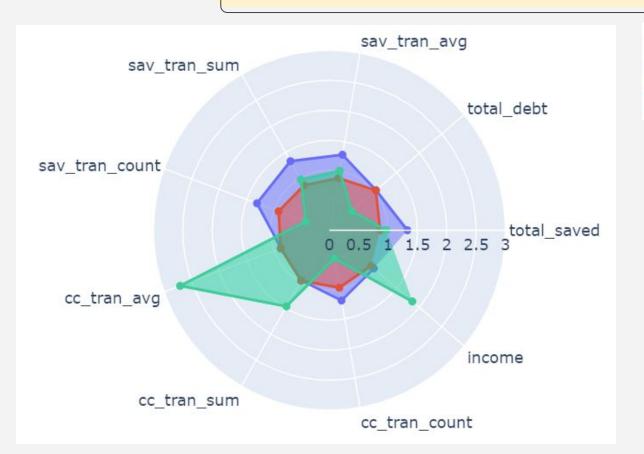


BANKING BEHAVIOUR RADAR

Cluster 0

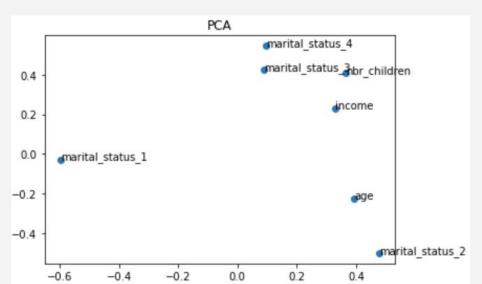
Cluster 1

Cluster 2

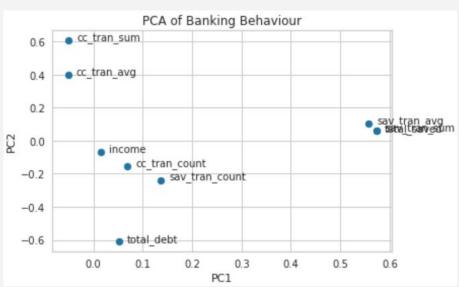


PCA 2-COMPONENT REDUCTION

CUSTOMER DEMOGRAPHICS

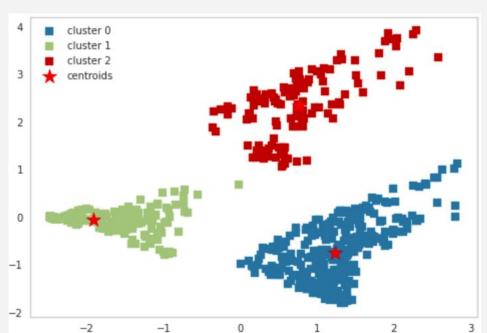


BANKING BEHAVIOUR

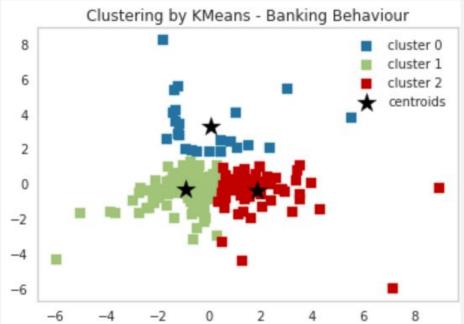


PCA 2-COMPONENT REDUCTION

CUSTOMER DEMOGRAPHICS

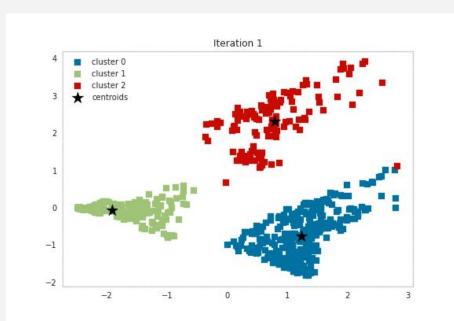


BANKING BEHAVIOUR

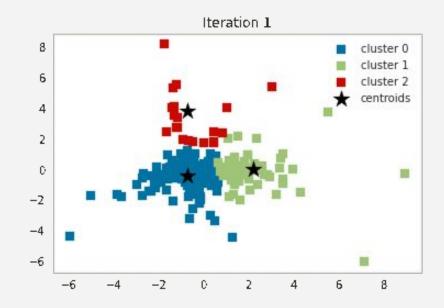


KMEANS ITERATIONS

CUSTOMER DEMOGRAPHIC CLUSTERING



BANK BEHAVIOUR CLUSTERING



THANKS

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twm_customer cust id income age years_with_bank nbr_children gender marital_status name_prefix first_name last name street_nbr street_name postal_code city_name state_code

acct_nbr cust_id acct_type account_active acct_start_date acct_end_date starting_balance ending_balance

twm_savings_tran

cust_id

tran_id

tran_amt

principal_amt

interest amt

new_balance

tran date

tran_time

channel

tran_code

wm_checking_acct
cust_id
acct_nbr
minimum_balance
per_check_fee
account_active
acct_start_date
acct_end_date
starting_balance
ending_balance

twm_checking_tran
cust_id
tran_id
tran_amt
principal_amt
interest_amt
new_balance
tran_date
tran_time
channel
tran_code

twm_credit_acct
cust_id
acct_nbr
credit_limit
credit_rating
account_active
acct_start_date
acct_end_date
starting_balance
ending_balance

/m_credit_tran	twm_trar
cust_id	trar
tran_id	acct
tran_amt	tran
principal_amt	princip
interest_amt	intere
new_balance	new_b
tran_date	tran_
tran_time	tran_
channel	cha
tran_code	tran_

twm_transactions
tran_id
acct_nbr
tran_amt
principal_amt
interest_amt
new_balance
tran_date
tran_time
channel
tran_code



twm_savings_acct
cust_id
acct_nbr
minimum_balance
acct_type
account_active
acct_start_date
acct_end_date
starting_balance
ending_balance

total_saved

Bank_bhv

cust_id	savings_acct	total_saved