

# Digital Pathway: Reinventing Vanguard's User Journey

DEIMANTE PIRAITYTE

#### Data

Digital Challenge: Vanguard aim was to enhance user experience through a modern UI and timely in-context prompts, to test whether these adjustments would boost client engagement.

Information: Analysis were done using 3 datasets containing times of user's activity online, during various steps of the process.

#### Preparation: To ensure precision:

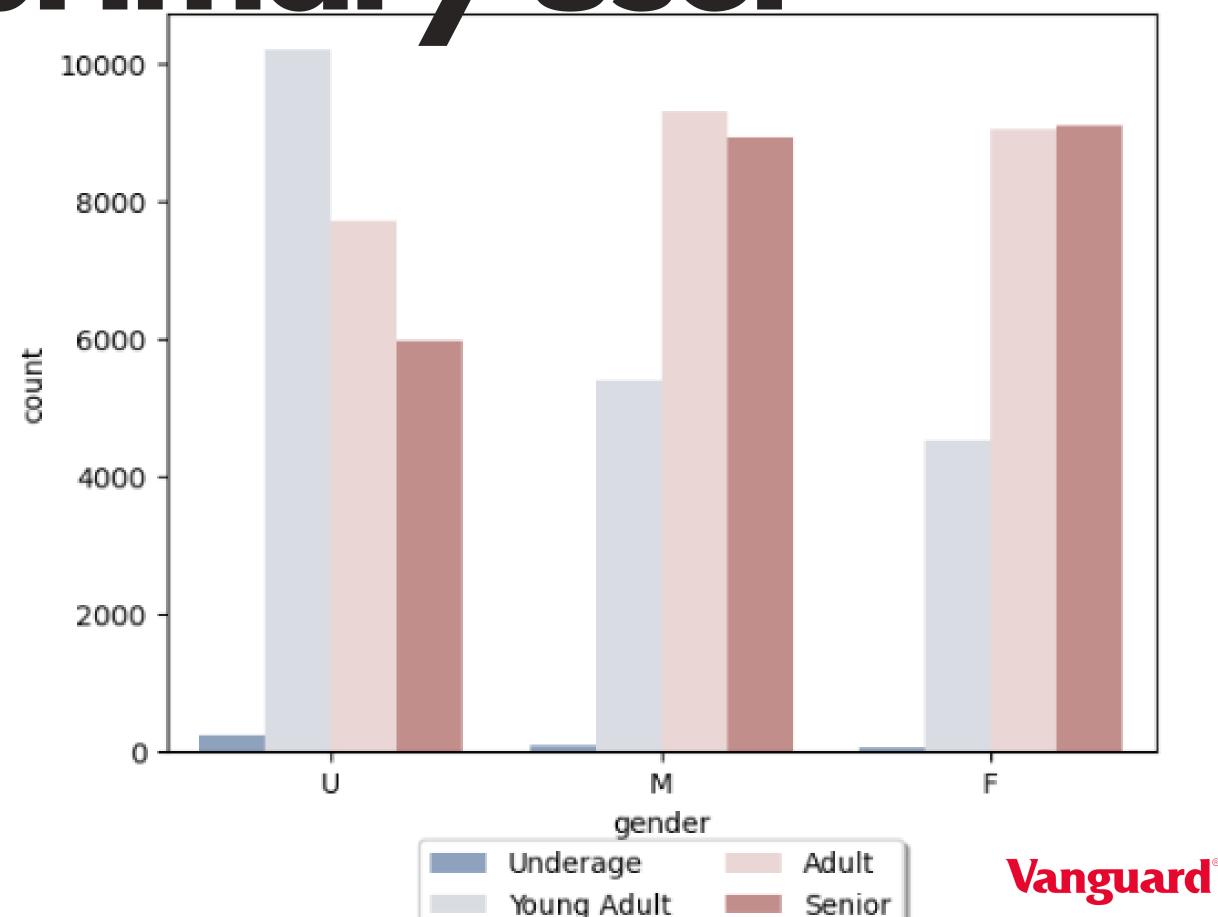
- Missing values were addressed
- Column names refined
- Various hypotheses tested to attain statistical clarity

EDA of a primary user

Average client age

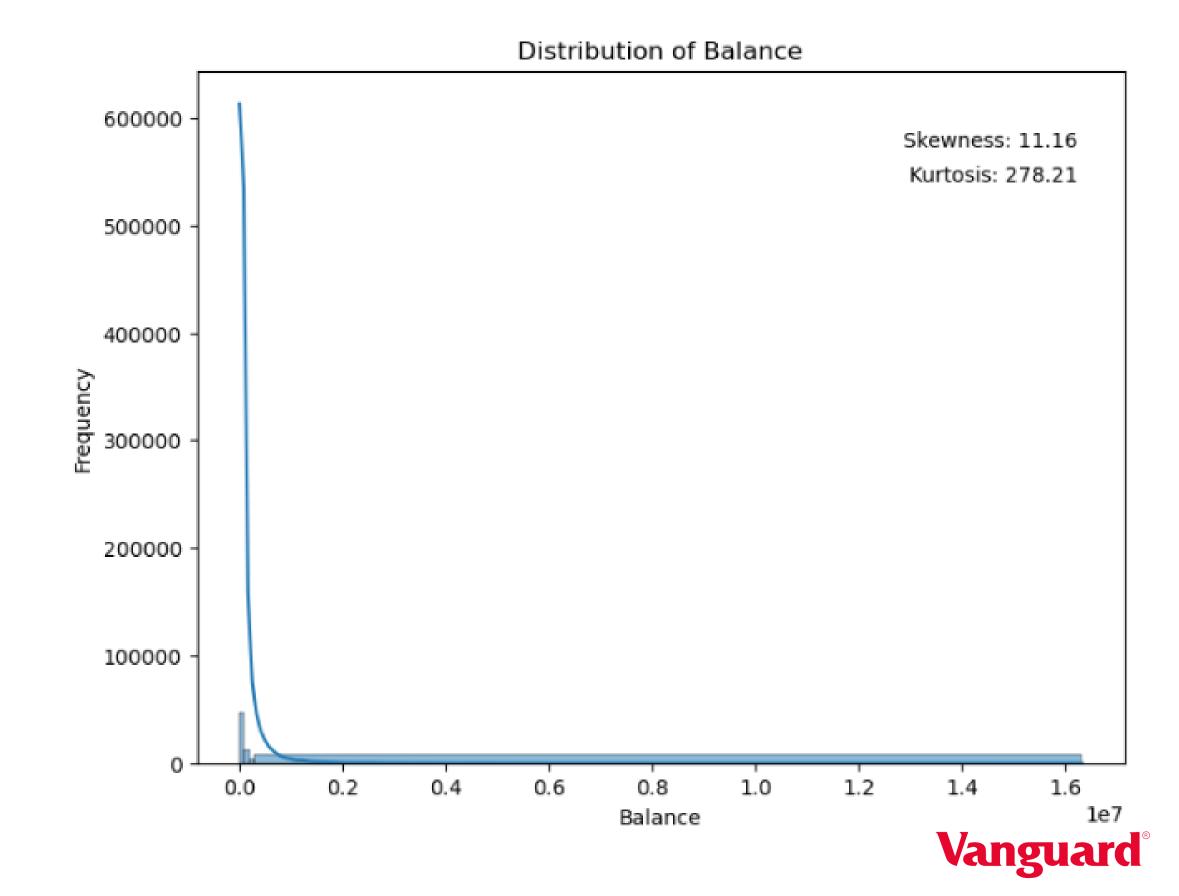
340/C Female/Male user

Registered over 10 years



## EDA: balance overview

Clients have less than 100k balance Right skewed distribution Kurtosis showing a lot of outliers



## Performance Metrics

KPI:	Control		Test 69%
Completion rate Time spent on each step		66%	
		00:01:21	00:01:22
Error rates:	Step 1	38%	41%
	Step 2	33%	32%
	Step 3	29%	27% Vanguard

# Hypothesis Testing

- HO: completion rate of a test group == completion rate of a control group
- HA: completion rate of a test group!= completion rate of a control group



**Z-statistic = -8.875**;

p = 0.000

Chi2

137732.672

0.0

Significance level: 0.05

Z-statistic: A negative value indicates that the proportion in the Test group is lower than in the Control group.

P-value: The p-value being extremely low (close to zero) indicates strong evidence against the null hypothesis,

Chi-square test: shows there is a significant association.

**Vanguard** 

HO: The completion rate for the Test group  $\leq$  Control group increased by 5%

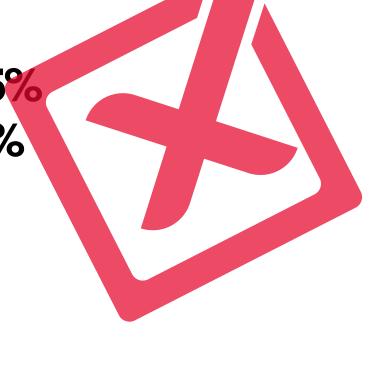
HA: The completion rate for the Test group > Control group increased by 5%



Z-statistic = 
$$-3.167$$
;  
p =  $0.999$ 

Z-statistic: Not enough evidence to support H0 hypothesis.

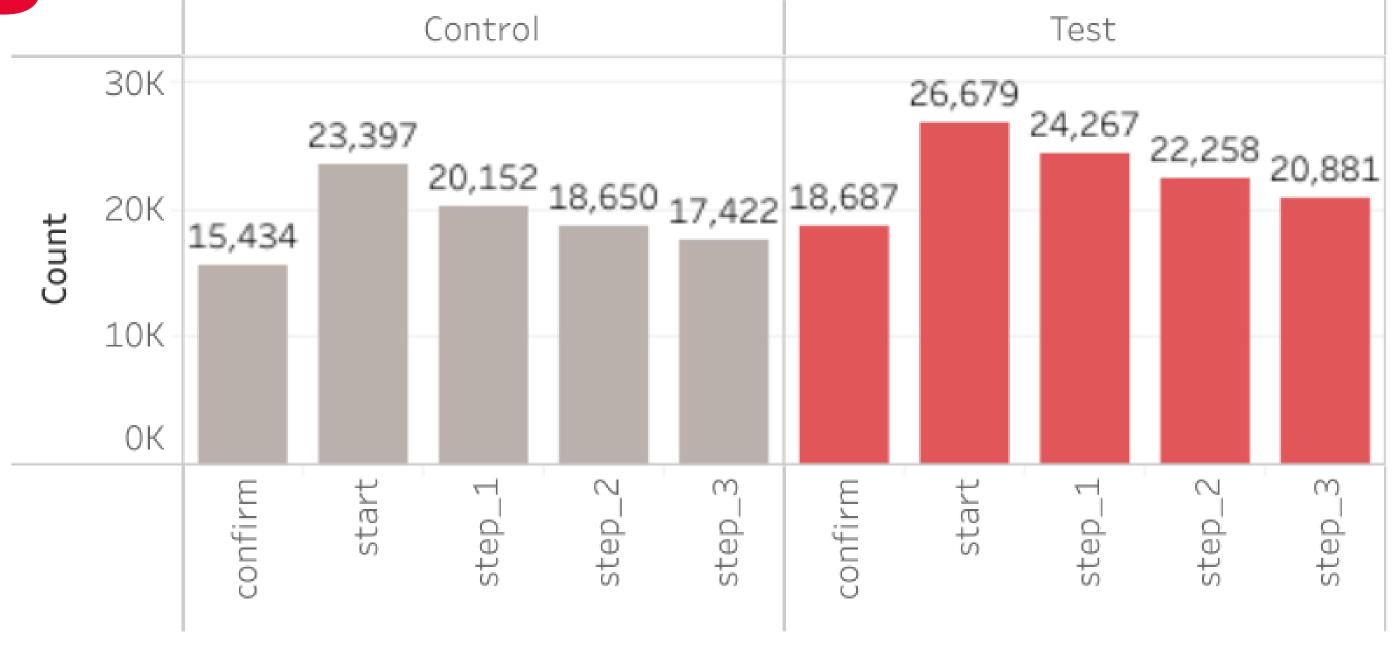
P-value: Since it is higher we cant reject hypothesis.



Significance level: 0.05

### COCUA/B: Step Rate





#### A/B: Completion Rate

	Control	Test
20K-		18,687

# Project Summary

Challenge:
Experience and general knowledge of

statistical testing.

Verdict:
No significant
difference with
new interface

Recommendation:

To gain deeper insights into the factors contributing to error rates

# Thankyou