



Predicting Risk for Loan Applicants

LHL_MINI_PROJECT_IV

By: Jesse Randolph

How DO Banks Make Money?

01

Loans

From Personal loans to mortgages, banks make money from the interest and service fees.

03

Accounts

Banks in the US are only required to Keep 10% of your account. They make money off the rest and charge fees.

02

Credit Services

This includes credit cards and lines of credit. Banks Make money mostly from the recurring interest.

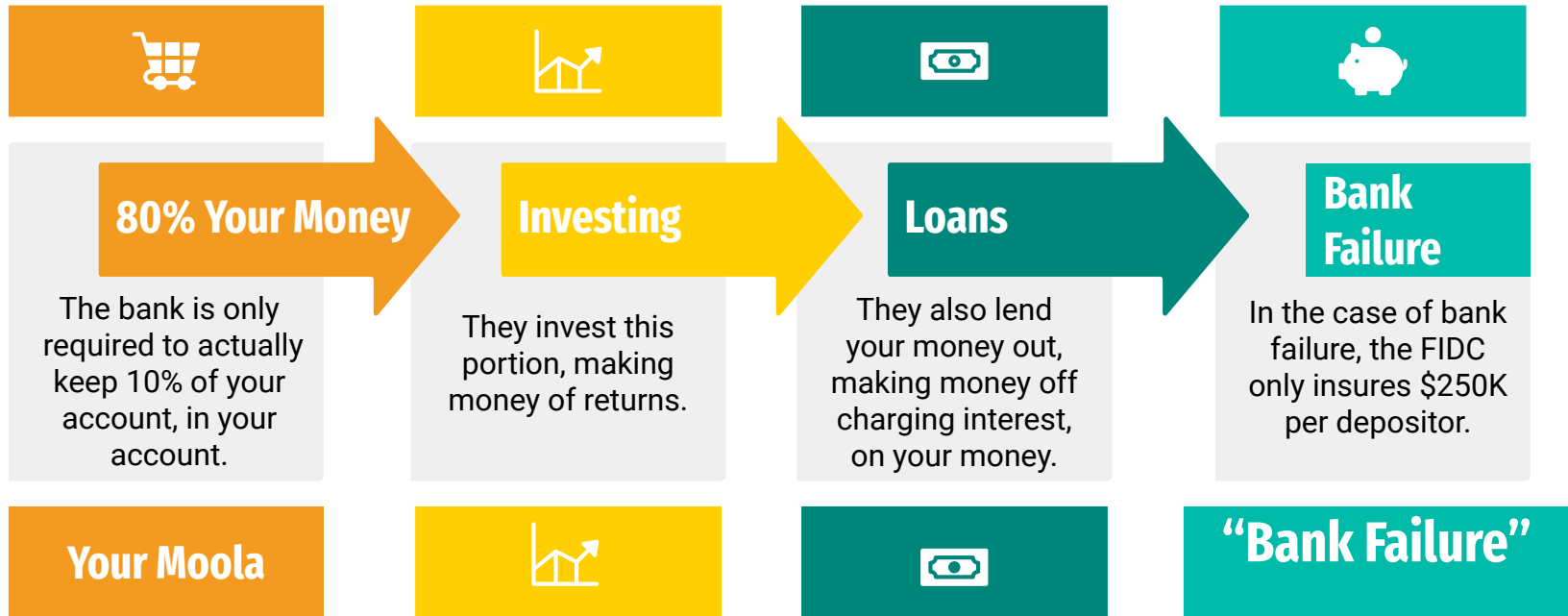
04

Investing

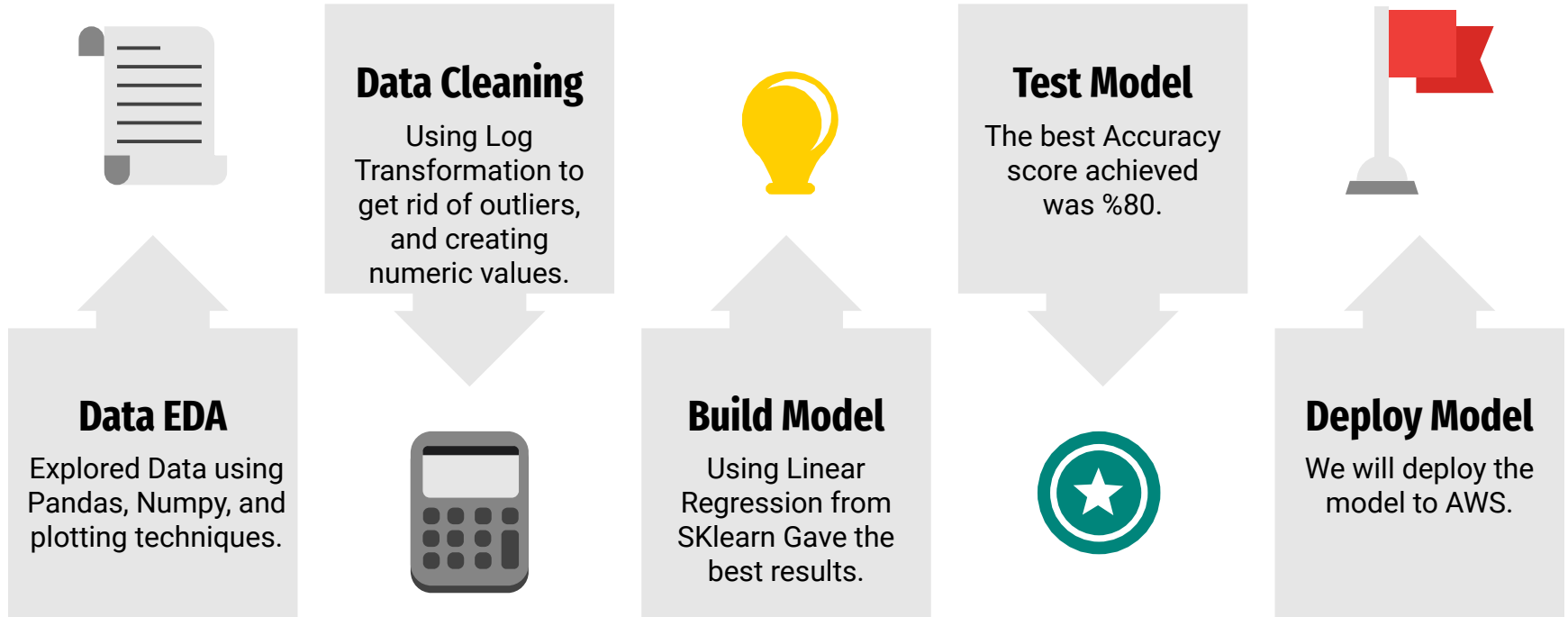
Banks make money from investing their own funds, as well as charging fees to invest yours



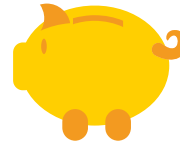
How a Bank Makes Money From Your Accounts



Outline Of the Risk Analysis Project



Overview of our Data



.shape

The Data has
614 rows and 13
columns.

Columns

The columns
have personal
and
demographic
information on
applicants

.isna

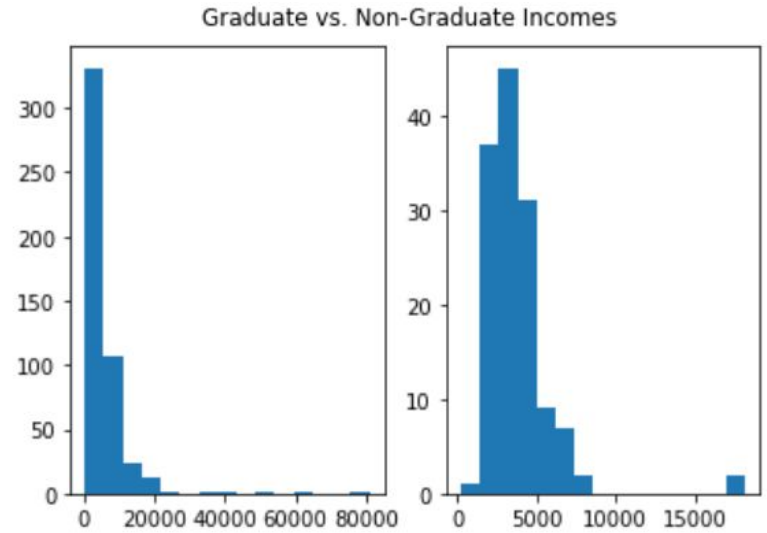
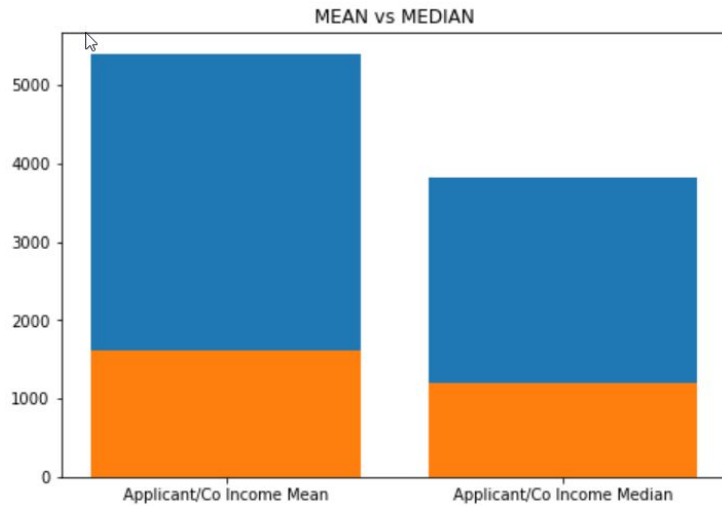
There are 5
columns with
missing values.

**Extreme
Values**

Using Log
Transformation
we'll change our
extreme values.

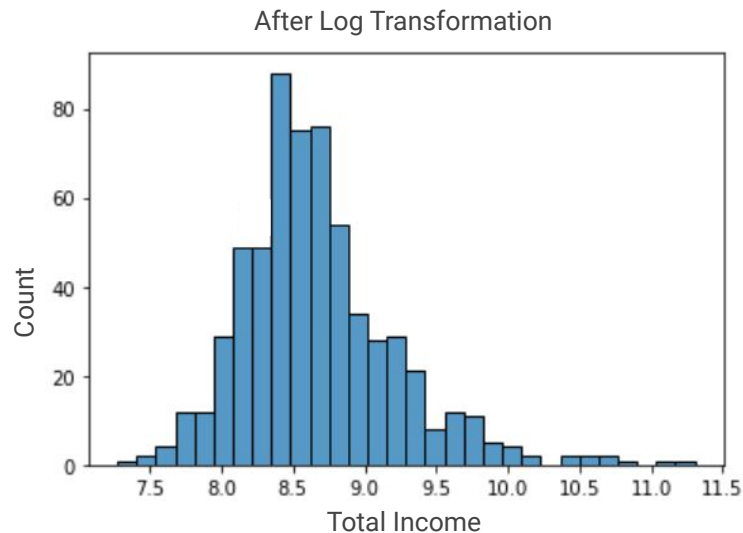
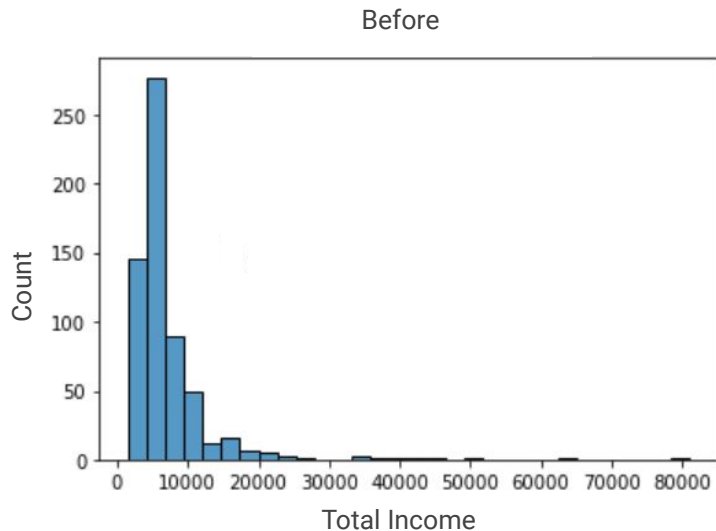


\$ Key Findings EDA \$





Distribution Before & After Log Transformation



Linear Predictive Model

%80 Accuracy



Well, actually %79
was achieved
with our model.

Feature Importance



Credit History and
Income were the top
2 most important
features.

AWS Deployment



Currently
Deploying this
model to AWS.



Why is this *Important* to Banks?

Interest from borrowers is one of the top **3*** money makers for banks.

They **WANT** you to borrow, even though there is a risk.





Thanks for Listening!

*Any
Questions?*



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