Argo Health Insurance

We protect what you value most.

Presentation By: M&M



WHO ARE WE?



Established in 2023, Argo is committed to providing comprehensive and reliable insurance solutions.



We work hard to maintain the highest standards in health insurance because we recognize how important health is to each and every person.

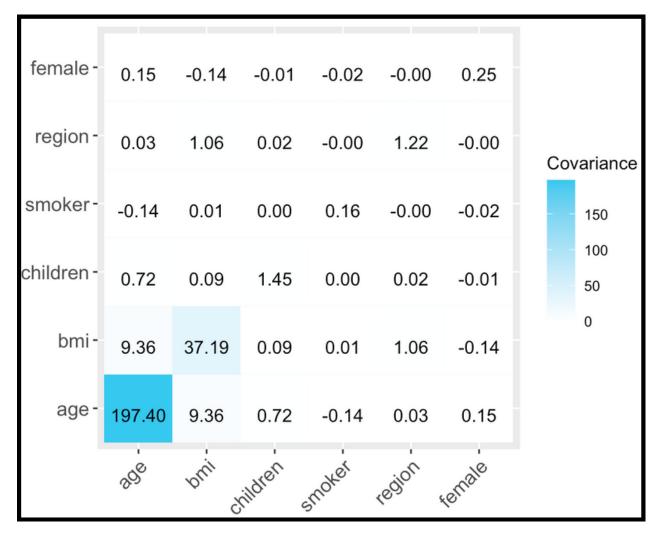


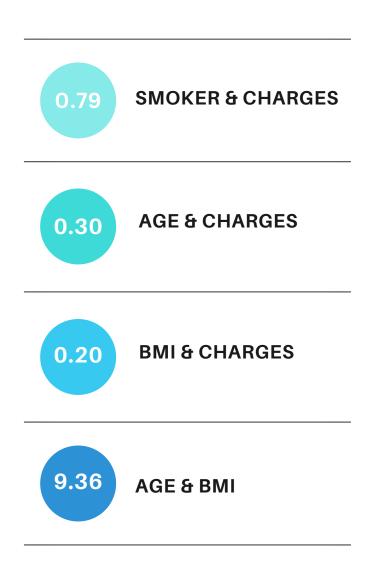
We use technology to improve your entire experience, from video consultations to online claim processing.

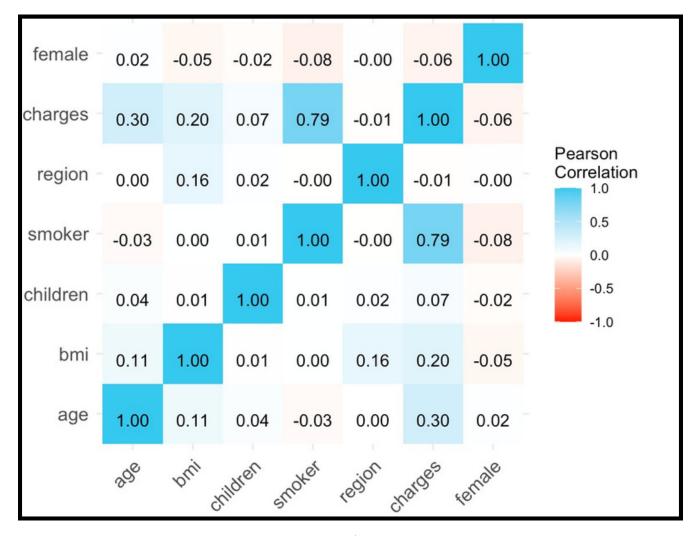


To ensure financial stability and peace of mind, our medical insurance policies are customized to match the various demands of our clients.

FACTORS AFFECTING CHARGES







Covariance

Correlation

AGE AFFECTING CHARGES

Trend line starts at approx. \$25,000 for smokers and increases as the age increases.

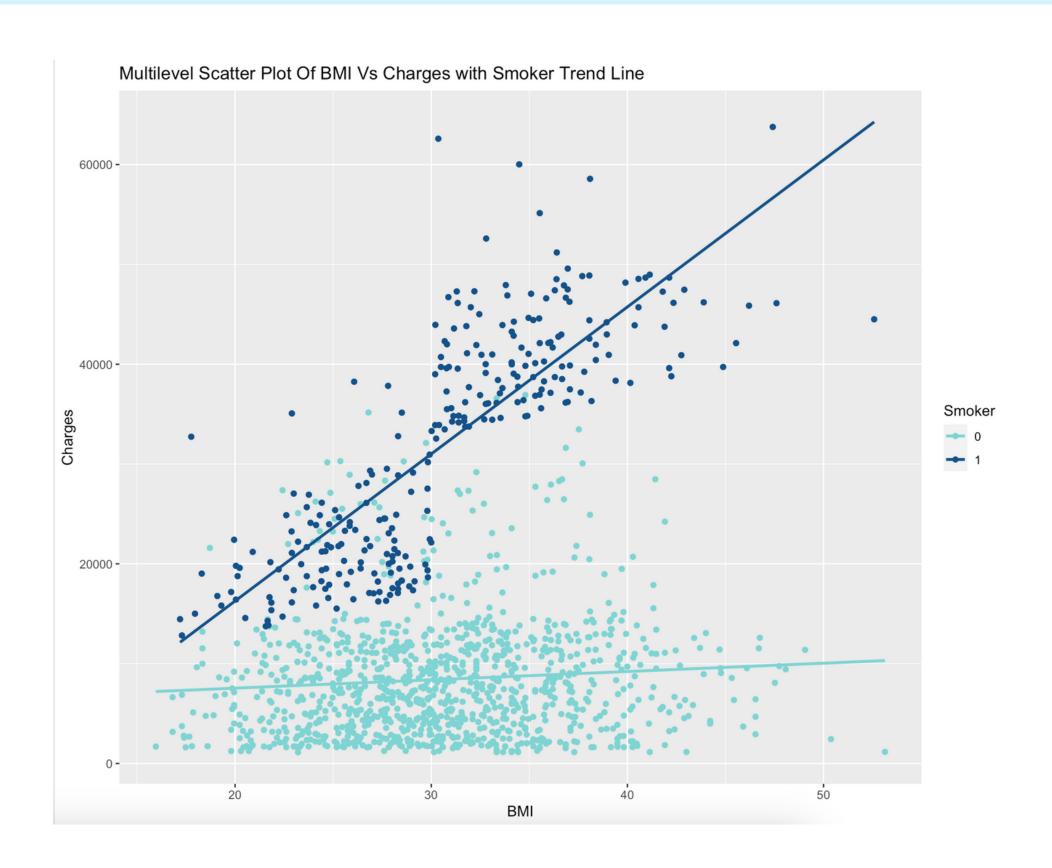
Trend line starts at approx.
\$5,000 for non-smokers and increases as the age increases.



BMI AFFECTING CHARGES

• As the BMI increases, for smokers the trend line increases significantly.

The trend line remains mostly stagnant for non-smokers as the BMI increases.



LINEAR MIXED EFFECTS MODEL

Factorize The Categorical Variables	1	
Understanding The Levels Of Data And Data Cleaning	2	
Identified The Variable Interaction Effects	3	
Created Train, Validation and Test Sets	4	
Making Predictions On The Test Set	5	
Calculating Performance Of Model Using RMSE & MAE	6	

MODEL JUSTIFICATION



SMOKERS VS CHARGES

There is a high correlation between smoking and charges.

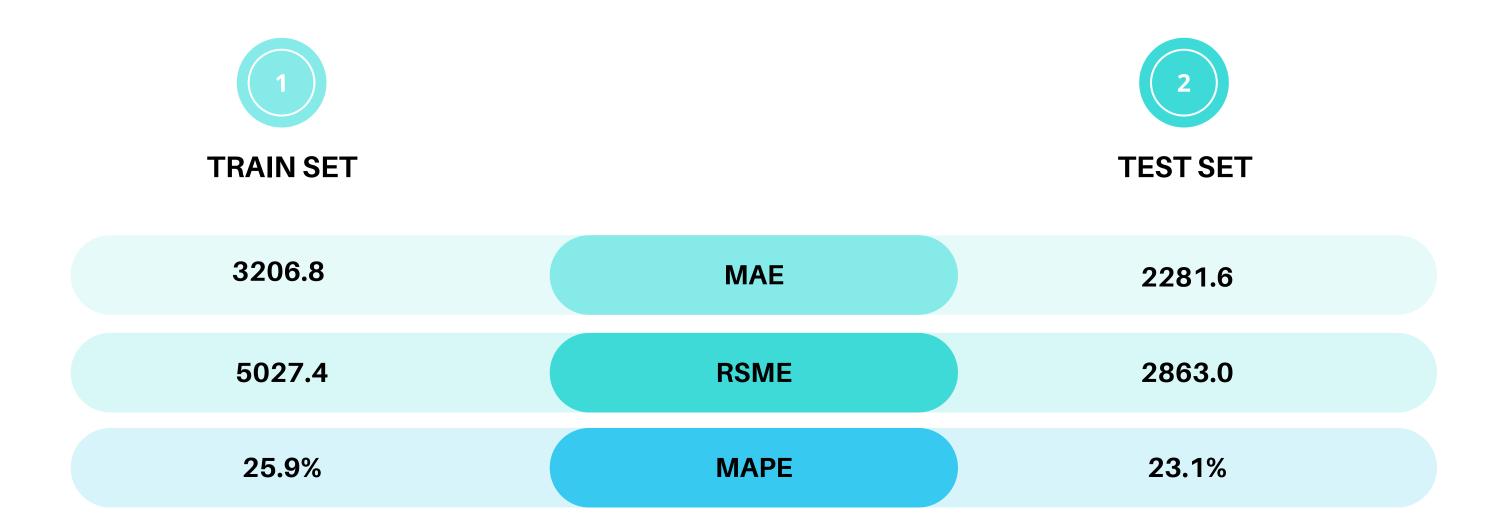
AGE & BMI

There is an interaction between age and BMI.

SMOKERS & BMI

There is an interaction effect between BMI and smokers.

PERFORMANCE INDICATORS



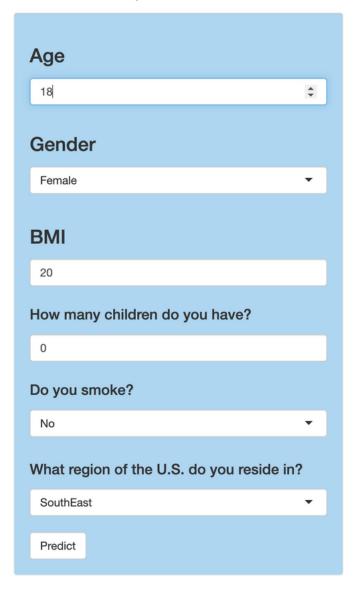
CONDITIONAL R-SQUARED: 0.906

USER INTERFACE

 The potential clients can input data through the dashboard, and the Shiny app subsequently displays an estimated quota derived from our model.

 This can enable them to compare prices and also connect with our agents instantly if they require.

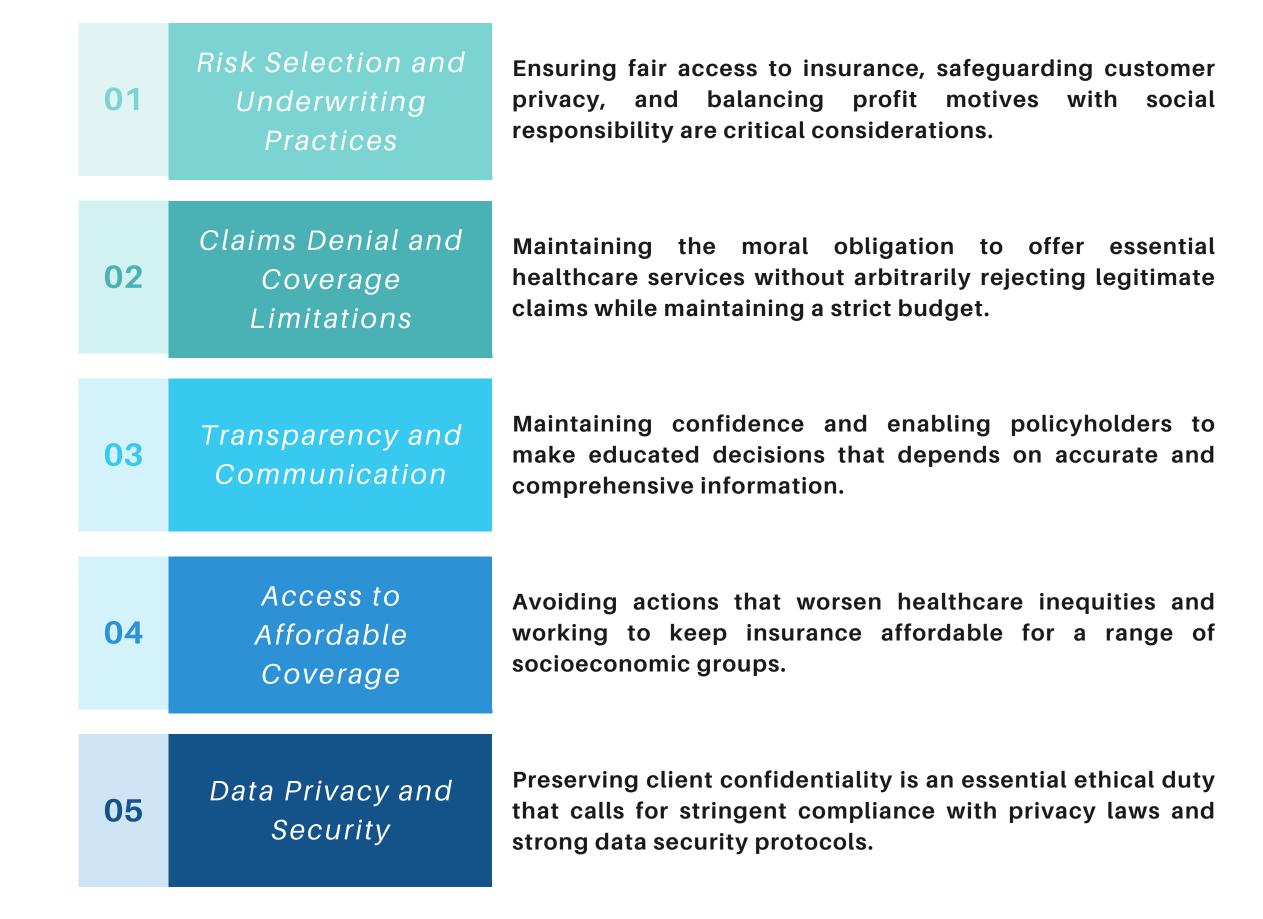
Get a Quote!



Estimated Quote: \$2724

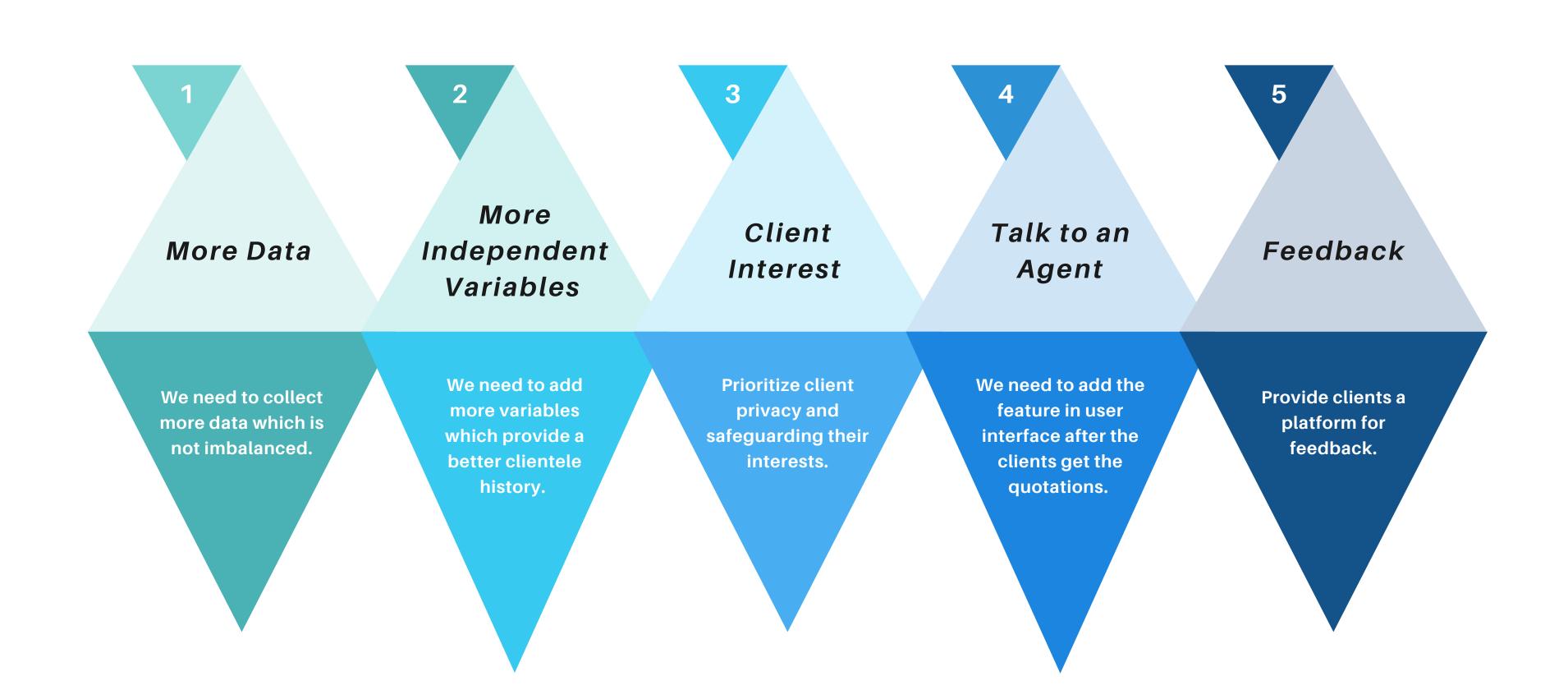


ETHICAL CHALLENGES





RECOMMENDATION



THANK YOU!