A Report On

Medical Insurance Premium Prediction

SUBMITTED TO THE SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE

OF

BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING

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1. Introduction

Insurance is a policy that eliminates or decreases loss costs occurred by various risks. Various factors influence the cost of insurance. These considerations contribute to the insurance policy formulation. Machine learning (ML) for the insurance industry sector can make the wording of insurance policies more efficient. In this project we demonstrates how Random forest algorithm gives better accuracy than linear regression model.

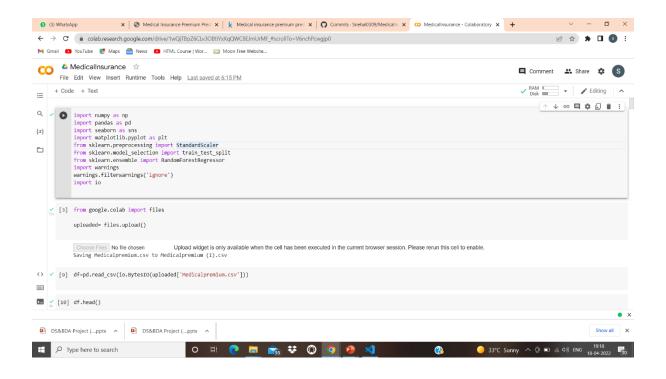
2.Problem Statement

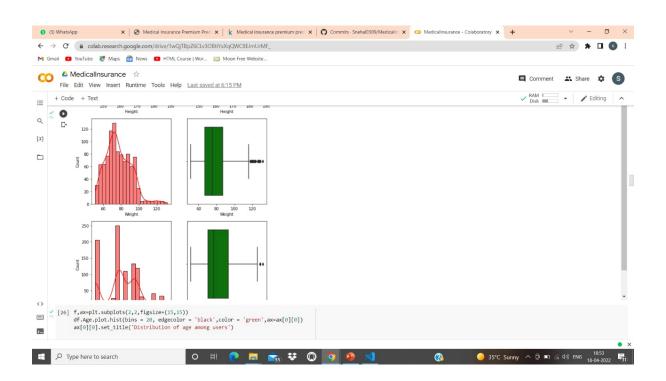
Insurance is a policy that eliminates or decreases loss costs occurred by various risks. Various factors influence the cost of insurance. So, to forecast premium cost using Machine learning algorithm becomes a better way.

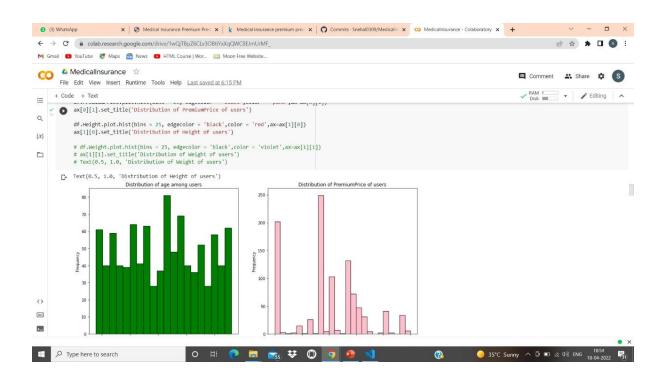
3.Technology

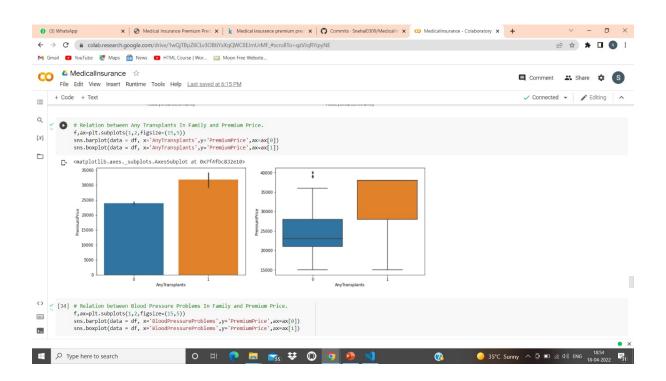
- 1. Python
- 2. Algorithm (Random Forest Classifier)

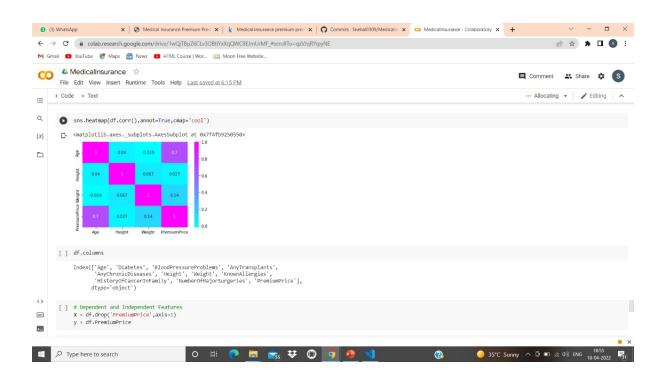
4.Output

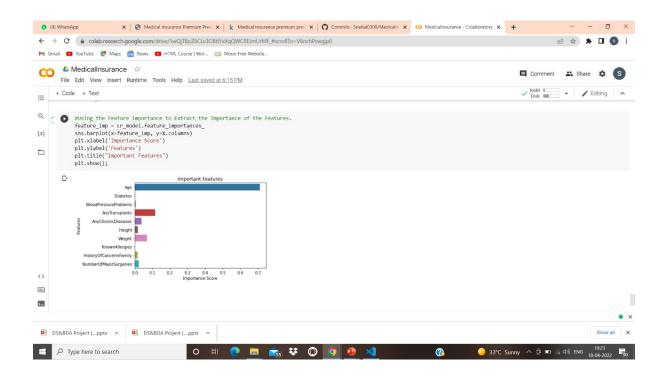












5.References

- 1. https://www.kaggle.com/datasets/tejashvi14/medical-insurance-premium-prediction
- $2. \ \underline{https://www.analyticsvidhya.com/blog/2021/06/understanding-random-} \\ \underline{forest/\#:\sim:text=Random\%20forest\%20is\%20a\%20Supervised,average\%20in\%20case} \\ \%20of\%20regression.$

6.Conclusion

In this project, we have explored the random forest classifier model and applied it to predict premium cost and seen the correlation between predicted and actual results. Random forest classifier algorithm gives more accuracy.