HEALTH INSURANCE FRAUD CLAIM AND AMOUNT PREDICTION

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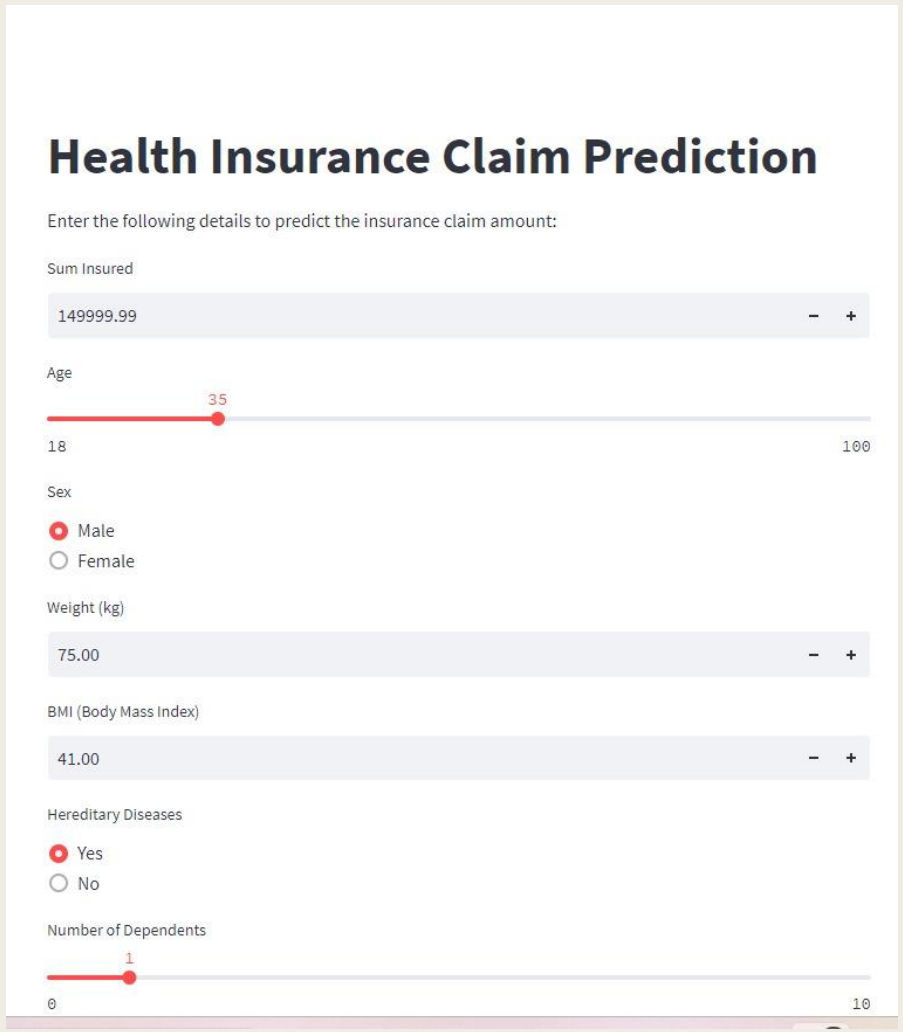
MODEL PERFORMANCE

```
Linear Regression:
R2 Score: 0.7438379967021389
MAE: 4130.880032321348
MSE: 38257831.16090765

Support Vector Regression:
R2 Score: -0.10538777675323274
MAE: 8385.755501216734
MSE: 165089819.66846362

Random Forest Regression:
R2 Score: 0.9673507029224009
MAE: 486.8743433333395
MSE: 4876177.102912018

Gradient Boosting Regression:
R2 Score: 0.8612602206771469
MAE: 2681.480745947937
MSE: 20720805.52268081
```



WEB INTERFACE

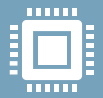
Streamlit

What can be done next

Model Interpretability and Explainability (SHAP and LIME)

Fairness and Bias Mitigation.

Collaborating with domain experts (Insurance, Healthcare)



Scalability and Performance Optimization.

Establish a streamlined and automated process for model training, testing, and deployment to enable faster iterations and updates.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THANK YOU