Coming to the technologies that we would be implementing on our platform;

The frontend will be built using Streamlit framework,. This also allows for rapid deployment of the project on streamlit cloud. backend connections would be Python scripts. data storage would be managed by Firebase.

Text from uploaded files will be extracted using Tesseract. It is an open-source engine developed by Google. It will be complemented by PIL and pdf2image Python libraries for reading image and PDF files respectively.

The ML model to be used to identify user’s health condition can be based on either random forest Algo or Multi Layer Perceptron Algo. These 2 are best suited because the dataset is structured and its attribtutes have a non linear relationship between them. We have used a dataset from Kaggle, it’s reference link present here.

We would be implementing MLP algo on our platform. This is because, though it requires more computational power, the dataset is comparatively smaller. Also the MLP architecture can be defined as per my requirements; like setting the number of hidden layers, no. of nodes in them, which activation function to be used, no. of epochs or iterations for training the model, Later; it will be deployed as a pickle file (.pkl).

Additionally, Google Maps API can be used for displaying insurer’s address.