Here is the assignment we discussed.

Attached please find the dataset that you can work with to implement a risk-prediction model for Lemonade in **Python**.

Your mission is to build a classifying model that will be called/triggered prior to our chatbot Maya showing a price quote to the user. To get an idea of the quote flow, simply go to [lemonade.com](https://www.lemonade.com/start/1?f=1&ownership=renter) (just enter a random mailing address).

As discussed, you should provide the full cycle of a machine learning model end-to-end (as if you are actually deploying it to production).

Please submit a **Jupyter Notebook** file & make sure to:

* Explain every step you made (w/ MD cells)
* Write the insights you get from the data (invest the time in EDA)
* Clean the data and use feature engineering methodologies
* Don’t forget to split the data & make sure there's no leakage between folds
* Use the right metrics to evaluate the model(s), and make sure to include the (selected) final model evaluation
* Write readable & optimized code for scale/production - make sure to use the power of Pandas & np, pipelines, etc.

After you reach the final model, please also submit:

* A Python script that loads the model; receives as input a dictionary equivalent to one row of the data, where the keys are the column names; and returns a **decision**.
* Please explain very briefly what the model does and why, as if you were explaining it to business stakeholders.

**Feel free to reach out with any questions.**