**Lesson 02 Discussion**

One of the advantages of a tree models is that they are interpretable. Describe a situation where interpretability of the model is of critical importance. How can the properties of the model be interpreted in this situation?

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There are many times were the interpretation of the model (how the model is making decisions, what variables are the most relevant to the model, the path that follows for each prediction) is as important as the prediction, one of those cases is the interpretability of the failure prediction model for commercial engines. This being a safety problem any solution given by a black box would be an issue regardless of the performance of such model. Knowing what factors and variables are activated (present) for a failure to occur is of the upmost importance, since this can lead to prevention strategies rather than only predictions.