ALGORITHM THAT SEEMS APPLICABLE FOR FLIGHT DELAY PROBLEMS

1.NAIVE BAYES ALGORITHM - This is very simple algorithm based on bayes rule of probability.The advantage of using this could be its ease of implementation and interpretability. We don't require to convert categorical variables into numerical one for Naive bayes. The output can be easily interpreted in terms of probability.

2.LOGISTIC REGRESSION- this is very powerful binary classification algorithm which sometimes gives very good result . it models the data in term of logit function.

3. DECISION TREE CLASSIFIER- this tree based algorithm works on the principle of knowledge gain and splits the data accordingly so that information gain at each node can be maximized .This is very powerful classifier and its ensembles like random forest and boosting trees can give really good result.

4.SVM- Perhaps the most powerful of all , SVM can outperform any other model given the data is linearly separable. We must try this as they can give surprising result .Kernel trick can be used for non -separable data.

5. NEURAL NETWORKS- We can train neural networks provided we have sufficient computing power . They are used worldwide for complex machine learning problems. They are hard to interpret but gives better performance.