TITLE: Developing a flight delay prediction model using machine learning

AUTHOR: Mohamed

YEAR:2020

The main concern of the researchers and analysts is to predict the reasons for flight delays and for that they have put in their efforts on collecting data about flight and the weather. He have studied the pattern of arrival delay for non-stop domestic flights at the Orlando International Airport. They focused primarily on the cyclic variations that happen in the air travel demand and the weather at that particular airport.

TITLE: Developing a flight delay prediction model using machine learning

AUTHOR: Adrian

YEAR:2020

He have created a data mining model which enables the flight delays by observing the weather conditions. They have used WEKA and R to build their models by selecting different classifiers and choosing the one with the best results. They have used different machine learning techniques like Naïve Bayes and Linear Discriminant Analysis classifier.

TITLE: Developing a flight delay prediction model using machine learning

AUTHOR: Choi

YEAR:2020

They have employed Long Short-Term Memory RNN architecture trying to prove that the accuracy increases with deeper architectures. To train the model,stochastic gradient descent (SGD) algorithm is utilized. Use of SGDbhelped prevent Overfittingb and increase general performance. The comparison of accuracies obtained with different number of layers has been formulated to support the claim of accuracy increasing with the increase in number of layers. The accuracy further improved with increasing epochs. The model has then been used to calculate and compare the delay of individual flights which manifests promising results.

TITLE: Developing a flight delay prediction model using machine learning

AUTHOR: Navoneel chakrabarty

YEAR:2020

Applied Gradient Boosting Classifier to analyze and predict possible arrival delay. Data balancing is done using Randomized SMOTE technique which in turn helped improve validation accuracy. A 200% Randomized-SMOTE is done on the dataset to reduce the imbalance between classes. There have been two strategies followed and compared throughout the paper. In strategy 1, the data imbalance removal step has been skipped and in strategy 2 it has been followed.