**DEVELOPING A FLIGHT DELAY PREDICTION MODEL USING MACHINE LEARNING**

Submitted By

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**LITERATURE SURVEY**

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| **TITLE** | **AUTHOR** | **ALGORITHM** | **ADVANTAGES** | **DISADVANTAGE** |
| Flight Departure  Time Prediction  Based on Deep  Learning | HangZhou,  Weicong Li,  Ziqi Jiang, Fanger Cai and Yuting Xue | DEEP  LEARNING | 1. The deep learning architecture is flexible to be adapted to new problems in the future. 2. The same neural network based approach can be applied to many different applications and data types. 3. Massive parallel computations can be performed using GPUs and are scalable for large volumes of data. Moreover it delivers better performance results when the amount of data is huge. | 1. It requires a very large amount of data in order to perform better than other techniques. 2. It is extremely expensive to train due to complex data models. Moreover deep learning requires expensive GPUs and hundreds of machines. This increases cost to the users.   It is not easy to comprehend output based on mere learning and requires classifiers to do so. Convolutional neural network based algorithms perform such tasks. |

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| FLIGHT  DELAY PREDICTION  USING THE DATA  MINING | Adrian, A. A.  Simmons | DATA MINING | 1. It helps gather reliable information   2. Helps businesses  make operational  adjustment.    3. Helps to make  informed decision.  4. It helps detect risks  and fraud | 1 . Data Mining tools are complex and require training to us  2. Data mining techniques are not infallible  3. Rising privacy concern  4. Data mining requires large database |
| FLIGHT  DELAY PREDICTION  USING THE  AVIATION | RAHUL  GARG,SOH  AM  GOSAVI, | BIG DATA | Reveals that big data analytics has helped businesses to reduce their expenses  significantly. 66.7% | The lack of big data experts and data scientists has been the |
| OF BIG DATA | TEJAS  CHOULWA  R |  | of survey  respondents from New Vantage claimed that they have started using big data to reduce expenses.  Furthermore, 59.4% of survey respondents from Syncsort claimed that big data tools helped them reduce costs and increase operational efficiency. | biggest challenge in this field for the past three years. Currently, many IT professionals don’t know how to carry out big data analytics as it requires a different skill set. Thus, finding data scientists who are also experts in big data can be challenging. |