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

Submitted By

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**LITERATURE SURVEY**

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| **TITLE** | **AUTHUR** | **ALGORITHM** | **ADVANTAGES** | **DISADVANTAGE** |
| Flight Departure  Time Prediction  Based On Deep  Learning | Hang Zhou,  Weicong Li,  Ziqi Jiang, Fanger Cai And Yuting  Xue | Deep  Learning | Features Are Automatically Deduced And Optimally Tuned For Desired Outcome. Features Are Not Required To Be Extracted Ahead Of Time. This Avoids Time Consuming Machine Learning Techniques. | Requires Very Large Amount Of Data In Order To Perform Better Than Other Techniques.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. |

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| Airline Flight  Delay Prediction  Using Machine  Learning Models | H.Khasar A.Sheikholesa  Lime | Machine Learning | They Were  Interested In Different Aspects Such As Airport Facility Location, Weather Condition, And Airport Capacity. Using Machine Learning Allows Researchers To Handle Large Quantities Of Flight Data For Storing And Processing. | It Requires Very Large Amount Of Data In Order To Perform Better Than Other Techniques. 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. |
| Flight  Delay  Prediction  Using The  Data  Mining | Adrian, A. A.  Simmons | Data Mining | 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. | As Data Mining Brings Out The Different Patterns And Relationships Whose Patterns Significance And Validity Must Be Made By The User, So A Skilled Person Is A Must. As Data Mining Collects Information About People That Are Using Some Marketbased Techniques And Information Technology. And These Data Mining Process Involves Several Numbers Of Factors. This System Violates The Privacy Of Its User. |
| 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. |