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(57) Abstract :
The cost of airfare can vary significantly depending on a number of factors, including the time of day, the number of days left until travel, and seasonal events. Even with easy access to large data sets on these factors, travelers frequently lack the knowledge necessary to make reliable estimates of airfare prices. In this study, we suggest a predictive framework that uses machine learning algorithms to help consumers choose the best time to buy airline tickets. To create predictive models, we specifically use the Random Forest (RF), Decision Tree (DT), Linear Regression (LR), and Artificial Neural Network (ANN) algorithms to evaluate historical data. Significant relationships between the input factors and airfare costs are found in our investigation, and the forecast accuracy of machine learning systems varies. The results highlight the significance of taking into account a variety of criteria when determining airfare prices and provide useful information to help customers make wise selections.

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