# FLIGHT DELAY PREDICTION

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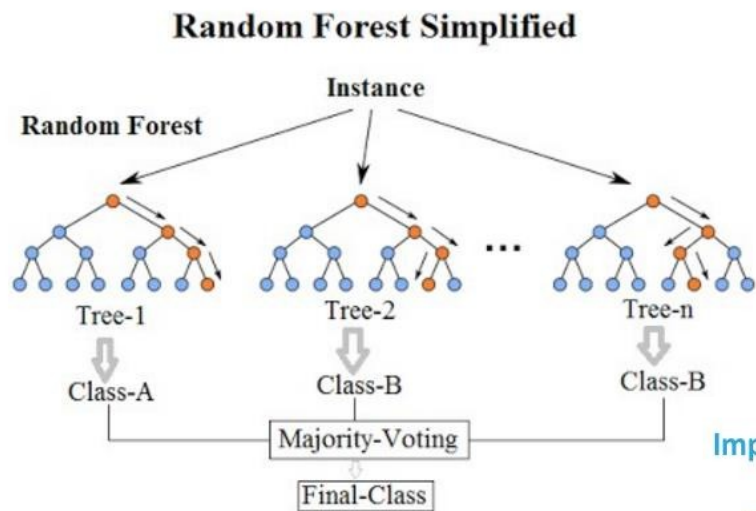## Consulting and Analytics Club

## ...ction

flight ticket knows how unexpectedly the
...using sophisticated tactics which they

...a is currently the 3rd largest civil aviation
... IATA (International Air Transport
... globally could double to 8.2 billion

...g world **time management** has become
... operations. We can't afford to lose time
... is as motivation we have developed a
...light delay based on various factors that
...ine trend, air trafficetc.

Weather
Volume
Equipment
Runway
Other

It is clearly visible from the
pie chart that **weather** is
one of the most prominent
factors causing delay,
hence we have extracted
weather features
separately.



**Random Forest Simplified**

**What is Impurity in Random Forest ?**

The i**mpurity** of a node is the probability that
a randomly chosen sample in a node would
be **incorrectly** labeled if it was labeled by the
distribution of samples in the node.

$$H = -\sum_{i=1}^{n}$$

## Result

After careful hyperparameter tuning by R...
Validation and application of various ML...