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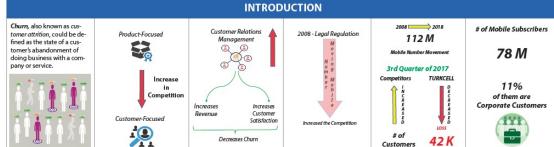
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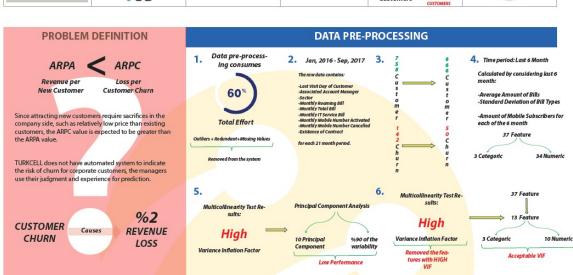
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Artificial Neural Network (ANN)

-The objective of the neural network is to transform the inputs into meaningful out-

Feach input value is multiplied by the corre-sponding weighting layers, then summed and a scalar parameter called bias is added. -There are three types of transfer functions used commonly in literature such as sigmoid, rectifier*, hyperbolic tangent and linear.

Support Vector Machine (SVM) Naive Bayes (NB)

-A learning model that is based on structural risk minimization, controlled by associated learning algorithms that analyze data and define patterns.

-A support vector machine attempts to find the line that "best" separates two classes of points.

By "best", it means the line that results in the largest margin between the two classes. The points that lie on this margin are the support

LEARNING MODELS

-Naive Bayes methods are a set of supervised learning algorithms based on applying Bayes' theorem with the "naive" assumption of independence between every pair of fea-

-The result of Naïve Bayes modeling tech-nique became acceptable when the high dimensional data was transformed into low dimension (Huang, Kechadi, & Buckley 2012).

Random Forest (RF)

-It is a model of multiple decision trees created using more than one decision tree. It has been improved by adding randomness feature to bagging method. (Breiman 2001)

-This model breaks each node into branches using the best among randomly selected fea-tures in each node, instead of dividing each node by using the best parameter among all

