Chettinad College of Engineering & Technology
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DEPARTMENT OF ELECTRONICS AND COMMUNCIATION ENGINEERING

Domain Name : Cloud Application Development

Project Title : Predictive Analysis Using Machine Learning For Fraud Detection

1. Name of the Student (s)

S.No	Name of the Student	E-Mail ID	Phone No.
1	Balamurugan K	balamurugan.in16@gmail.com	9443342582
2	Abishek S	abishekabishekece@gmail.com	9042417622
3	Aravinth S	aravinthap143@gmail.com	8098550572
4	Dinesh B	dineshdkjack@gmail.com	6380369665
5	Vinothkumar V	vinothkumar2velusamy2004@gmail.com	9360415114

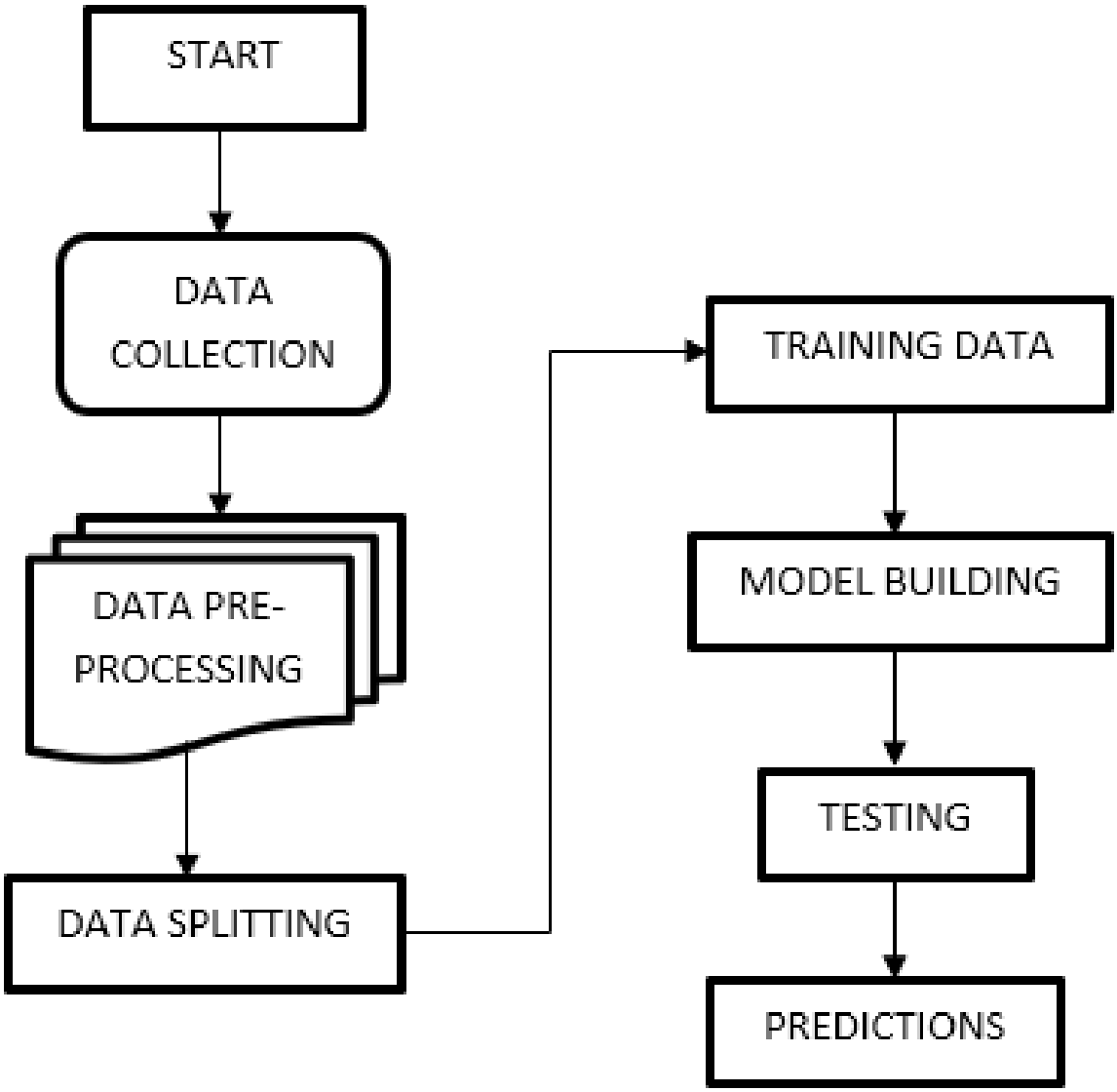
2. Name of the Guide : Ms.D.Ragavi

Department/ Designation : ECE/AP

Institutional Address : Chettinad College of Engineering and Technology
NH-67, Karur-Trichy Highway,
Puliyur CF, Karur

Phone No. & Mobile No. 6382171794

FLOW CHART:


START
DATA COLLECTION
DATA PRE-PROCESSING
DATA SPLITTING
TRAINING DATA
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DATA COLLECTION:

Data collection is the process of gathering and measuring information from countless different sources. In order to use the data we collect to develop practical artificial intelligence (AI) and machine learning solutions, it must be collected and stored in a way that makes sense for the business problem at hand.

DATA PREPROCESSING:

Data preprocessing steps are a part of the data analysis and mining process responsible for converting raw data into a format understandable by the ML algorithms.

Text, photos, video, and other types of unprocessed, real-world data are disorganized. It may not only be inaccurate and inconsistent, but it is frequently lacking and doesn't have a regular, consistent design. Machines prefer to process neat and orderly information; they read data as binary – 1s and 0s.

So, it is simple to calculate structured data like whole numbers and percentages. But before analysis, unstructured data, such as text and photos, must be prepped and formatted with the help of data preprocessing in Machine Learning.

Now that you know what is data preprocessing in machine learning, explore the major tasks in data preprocessing.

DATA SPLITTING:

Data splitting is when data is divided into two or more subsets. Typically, with a two-part split, one part is used to evaluate or test the data and the other to train the model. Data splitting is an important aspect of data science, particularly for creating models based on data.

TRAINING DATA:

Training data (or a training dataset) is the initial data used to train machine learning models.

Training datasets are fed to machine learning algorithms to teach them how to make predictions or perform a desired task.

MODEL BUILDING:

Building a model in machine learning is creating a mathematical representation by generalizing and learning from training data. Then, the built machine learning model is applied to new data to make predictions and obtain results.

TESTING:

A machine learning system is a powerful tool for efficiency and the proper maintenance of it is a must. Machine learning testing helps companies ensure that their software systems are meeting the desired quality, detecting bugs and flaws easier so that they can be quickly dealt with.

PREDICTION:

“Prediction” refers to the output of an algorithm after it has been trained on a historical dataset and applied to new data when forecasting the likelihood of a particular outcome, such as whether or not a customer will churn in 30 days