Fertilizers Recommendation System For Disease Prediction

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Supervised and unsupervised learning:

In Supervised Learning, a machine is trained using ‘labeled’data. Datasets are said to be labeled when they contain both input and output parameters. In other words, the data has already been tagged with the correct answer.

Common ML problems:

1. Classification
2. Regression
3. Clustering

Unsupervised learning, also known uses machine learning algorithms to analyze and cluster unlabeled data sets. These algorithms discover hidden patterns or data groupings without the need for human intervention. Its ability to discover similarities and differences in information make it the ideal solution for exploratory data analysis, crossselling strategies, customer segmentation, andimagerecognition.

Clustering, Classification and Regression : In the field of machine learning we all know the type of problems are different, sometimes we predict the value on previous set of data – Where data learn from available dataset, Or sometimes grouping them into some cluster. So today we are going to see what these terms are – Clustering, Classification and Regression means in Data science field. let’sdiveintothisconcept.

Generally machine learning algorithms are categorized on the basis of output type and type of problem that need to be addressed. So these algorithm are divided into three categories–

* 1. Classification
  2. Regression
  3. Clustering

Classification : –

Classification is the type of supervised machine learning, For any given input, the classification algorithm help in the prediction of the class of the output variables. therecanbemultipletypeof

classification are – binary classification, multi-class classification. Types of classification–

* K–Nearest Neighbor
* Logistic regression
* Decisiontree
* Randomforest
* Naive Bayes
* SVM(Supportvectormachine) Regression:–

Regression is the type of supervised machine learning, Whentheoutputiscontinuouslikeage, height etc.oneofverypopularregressionalgorithmisLinearRegression.

Types of Regression

* + Linear Regression
  + Ridge Regression
  + Lasso Clustering:

Clustering is unsupervised machine learning algorithm, it is used to group data point having similar characteristics as cluster. Clustering is divided into two groups

1. Hard clustering– In hard clustering, the data point is assigned to one of the clustersonly.
2. Soft clustering – It provides a probability likelihood of a data point to be in each of the clusters.

Python Flask : Flask Tutorial provides the basic and advanced concepts of the Python Flask framework. Our Flask tutorial is designed for beginners and professionals. Flask is a web framework that provides libraries to build lightweight web applications in python. It is developed by Armin Ronacherwholeadsaninternationalgroupofpythonenthusiasts(POCCO).

What is Flask?

Flask is a web framework that provides libraries to build lightweight web applications in python. It is developed by Armin Ronacher who leads an international group of python enthusiasts (POCCO). It is based on WSGI toolkit and jinja2 template engine. Flask is considered as a micro framework