Machine learning for everyone – part -2

ML

Steps to develop machine learning models

1. Identify of problem or requirement:

The first step to develop a machine learning model is to understand the requirements or real business problem you want to solve. You need to develop an understanding of the problem before attempting to decode it.

2. Identify, collect and prepare data:

Once you identify the business problems the next phase is to identify data. You must understand how the model will work on real-world data.

You need to shape your business data so that it further can be utilized to train your model. The quality of data will directly impact how your model will operate.

After gathering, next step is to prepare and visualize the data. This step involves pre-processing data by eliminating, normalizing, error corrections, and removal of duplicacy. Data preparation consists of data cleansing, augmentation, normalization, aggregation, transformation, labeling of data.

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3. Choose the suitable machine learning model:

At this stage, you develop an understanding of your problem which you are trying to solve. Now your data is also in its usable shape. Now it's time to select and train your machine model. There are many models that you can select according to your business objectives or problem, including prediction, classification, clustering, deep learning, linear regression, and so forth.

4. Evaluation, experiment and adjustment of model:

Evaluation of the machine models includes using a model metric approach, quality measurements, datasets, and matrix calculations. This phase is the quality assurance of a machine learning approach.

Now, it's time to see how the model works in the real world. This experiment and adjustment stage is also known as model operationalizing. It includes the deployment and monitoring of the ML model.

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