PRIOR KNOWLEDGE

One should have knowledge on the following Concepts

- Supervised and unsupervised learning
- Regression Classification and Clustering
- Artificial Neural Networks
- Flask

Supervised Learning

- Algorithms are trained using labeled data
- Simpler method
- Highly accurate
- No. of classes is known
- Uses offline analysis
- Linear and Logistics regression, Random forest, Support Vector Machine, Neural Network, etc.

Unsupervised Learning

- Algorithms are used against data that is not labeled
- Computationally complex
- less accurate
- NO. of class is not know
- Uses real time analysis for data
- K-Means clustering, Hierarchical clustering ,Apriori algorithm,

etc.,

Regression Classification and Clustering

Classification: A classification problem is when the output variable is a category, such as “Red” or “blue” , “disease” or “no disease”.

Regression: A regression problem is when the output variable is a real value, such as “dollars” or “weight".

Clustering: A clustering problem is where you want to discover the inherent groupings in the data, such as grouping customers by purchasing behavior

Artificial Neural Networks

An artificial neural network is an interconnected group of nodes, inspired by a simplification of neurons in a brain. Here, each circular node represents an artificial neuron and an arrow represents a connection from the output of one artificial neuron to the input of another.

Flask

A web framework is a software architecture that contains tools and libraries used to develop a web application in a fast and efficient way. Flask is a microframework written in Python