## Prerequisites:

As a prerequisite, AI technologies require a sound knowledge of basic mathematics concepts to implement in software or systems. You must have a good catch on statistics, linear algebra, matrix, calculus, probability, programming languages and data modeling.Strong Knowledge of Mathematics: Before getting started with AI, you must have sound knowledge of various mathematical concepts such as probability, statistics, algebra, matrix, calculus, etc. Mathematics is very important to build logical capability that is widely used in developing software and systems.

- Good knowledge of Programming knowledge: To learn the fundamentals of writing codes, you must have sound knowledge of programming languages like Python, R, LISP, Java, C++, Prolog, etc.
- Strong Analytical skills: Analytical skills refer to the ability to think critically, analyze data, decision making capability as well as solve complex problems. These important skill sets involve taking in new information and mentally processing it in a productive manner. Hence, if you are planning to jump into the AI domain, you must build your analytical skills to a great extent.
- Ability to understand complex algorithms: Artificial Intelligence is a field that completely depends on various algorithms that tell computers how to learn and take actions further. There are a few important algorithms that you must know before getting started with AI as follows:
- Classification algorithms
- Regression algorithms
- Clustering algorithms
- Basic knowledge of Statistics and modeling: Statistical modeling is defined as the use of mathematical models and statistical assumptions to generate training data and predict outcomes for the future. A statistical model is a collection of probability distributions on a set of all

possible outcomes of an experiment. We can say if anyone is looking to learn AI, then one must enhance statistics and modeling knowledge.

**Chat Bot Prerequisites:**

- Complex dialogues
- Flexible data connections
- Multi-channel capability
- Fast onboarding
- Easy handling
- Ongoing optimization
- Analytics & reporting

## Creating intents

- Intents are purposes or goals that are expressed in a customer's input, such as answering a question or processing a bill payment. By recognizing the intent expressed in a customer's input, the Watson Assistant service can choose the correct dialog flow for responding to it.