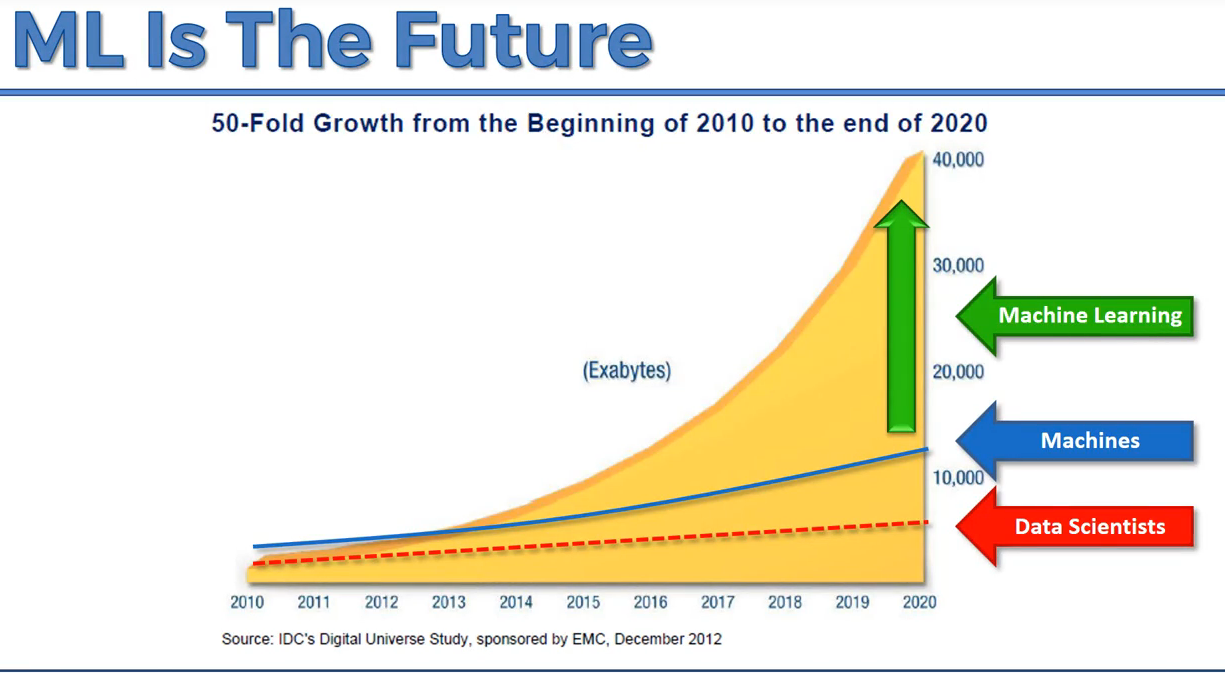
**Applications of ML:**

1. Facebook face tagging
2. Motion sensor
3. Virtual Machine
4. Voice recognition
5. Robot dogs(Reinforcement Learning-Robots walk on their own)
6. Facebook Ads
7. Amazon, Netflix
8. Medical Purpose to save lives
9. Maps
10. Satellites

**ML is the future:**

* We are generating huge amount of data (exponential Growth)
* 2005🡪 130 Exabytes of Data. 2010 🡪1,200 Exabytes. 2015🡪7900 Exabytes. 2020🡪 4000 EB.



**Data Preprocessing:**

Without Preprocessing, the model won’t work well.

* Get the dataset
* Importing the libraries
* Import the Dataset
* Missing Data
* Categorical Data
* Splitting the Dataset into the training set and Test Set
* Feature Scaling
* Data Preprocessing Template

**Missing Data:**

1. To **remove the row**, but it is quite dangerous situation to loose information
2. To take **mean** to fill the missing value.

**Categorical Variable:**