INTRODUCTION TO SUPERVISED LEARNING

➤ In simple terms, supervised learning makes use of supervised techniques to predict an unknown observation for a given domain.

➤ The application of supervised techniques are enormous in our daily life.

➤ Below are few examples:

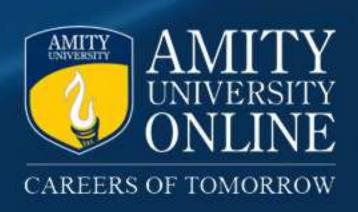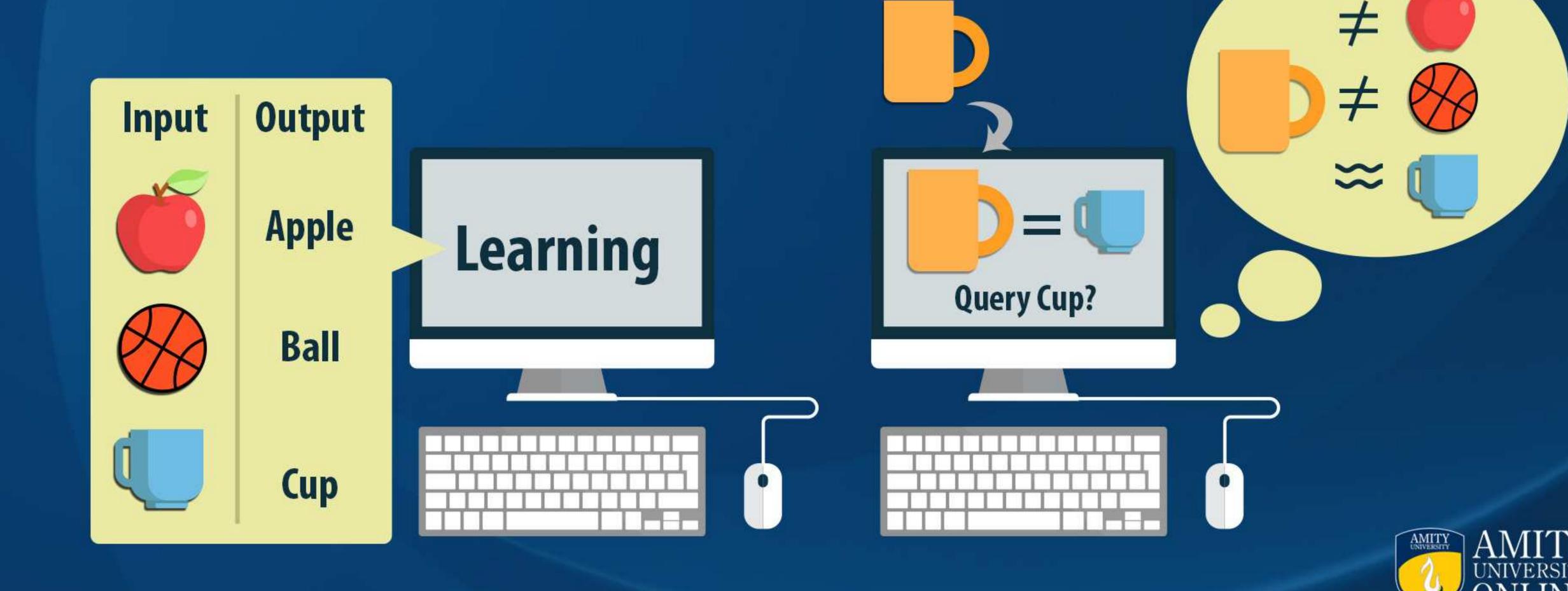| 1	2	3	4	5	6
Gmail Application	**Meteorology**	**Medical**	**Banking**	**Stock Markets**	**Business**
Gmail	Weather Forecast	Diagnosis	Fraud Non-Fraud	Forecasting the stock market	Sales

MACHINE LEARNING TECHNIQUES

➤ **Machine learning techniques come in two flavours namely,**

1. **Supervised techniques: Also known as "predictive techniques".**

2. **Unsupervised techniques: Often addressed as "descriptive techniques".**

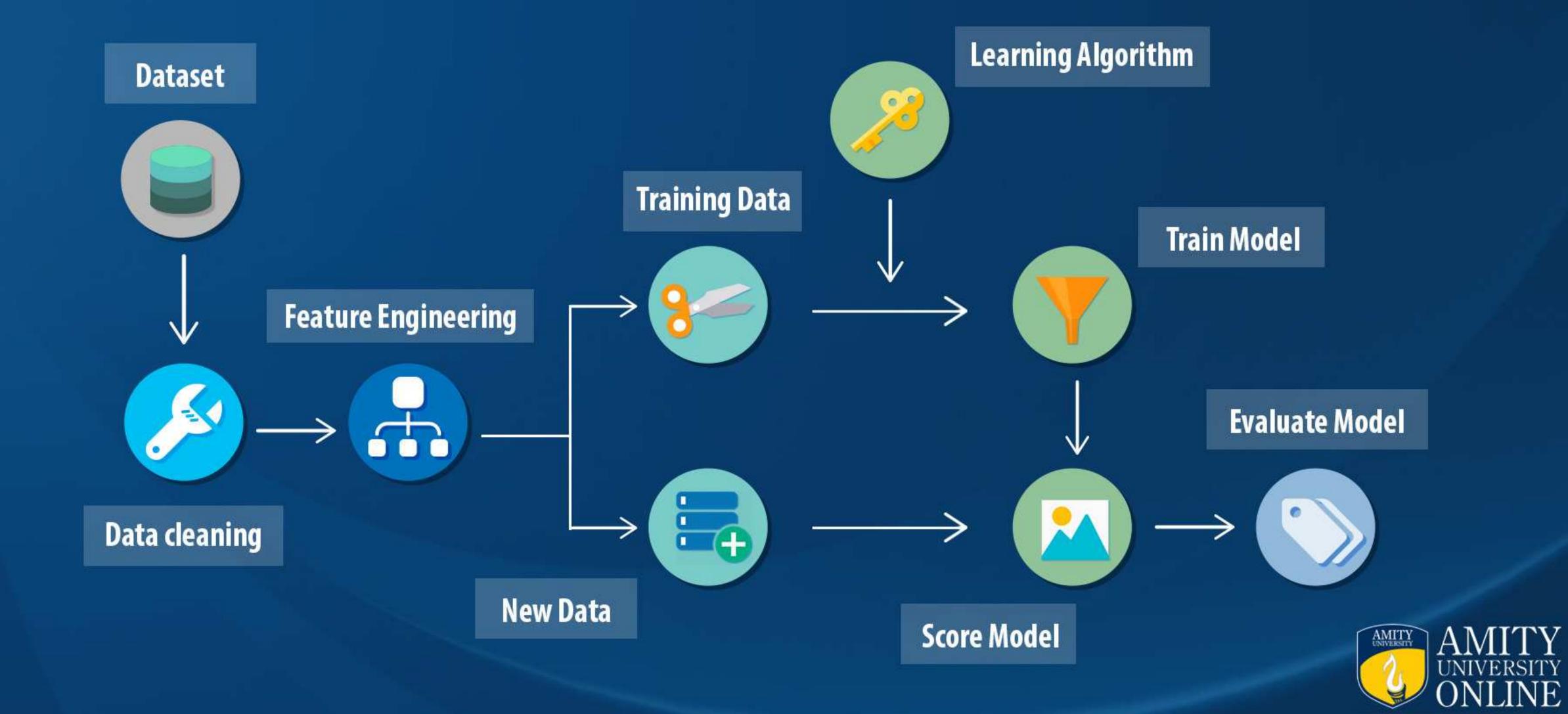| Techniques	Supervised	Unsupervised
Classification of Techniques	1. Classification 2. Regression	1. Association Rule mining 2. Clustering
Key Objective	1. Predict/Forecast	1. To mine relationships between features 2. To mine objects with similar behavior or characteristics

Table 1: Categories of Machine Learning Techniques

AMITY
UNIVERSITY ONLINE
CAREERS OF TOMORROW

PHASES IN SUPERVISED LEARNING