APPLICATIONS OF SUPERVISED MACHINE LEARNING..

It Has Two Types.They Are,

Regression.

Classification

Applications Of Regression :

1) Predictive Analysis :

* EXMAPLE : Forecasting Sales,Stock Prices Or Whether

Conditions.

* USE CASE : Businesses Use Regression To Predict Future Sales

Based On Historical Data,Helping In Inventory

Management And Strategical Planning.

2) Real Estate Valuation :

* EXMAPLE : Estimating Property Prices Based On Features Like

Location,Size And Amenties.

* USE CASE : Real Estate Companies Use Regression Models To

Provide Accurate Property Valuation For Buyers

And Sellers.

3) HealthCare :

* EXMAPLE : Predicting Patients Outcomes based On The Medical

History And Treatment Plans.

* USE CASE : Hospitals use regression to predict The length of

Stay for Patients,Helping In Resource Allocation

And Management.

4) Marketing :

* EXMAPLE : Estimating The Impact Of Advertising Spend On

Sales.

* USE CASE : Marketing Use Regression To Determine The

Effectiveness Of Different Advertising Channel

And Optimize Thier Budgets.

5) Economics :

* EXMAPLE : Modelling Economic Indicator Like GDP

Growth,Inflation Rates.

* USE CASE : Economics Use Regression To Understand The

Relationships Between Various Economics Factors

Make Policy Recommendations.

Applications Of Classification :

1) Economics :

* EXMAPLE : Classifying Emails As Spam Or Not Spam.
* USE CASE : Email Services Use Classification Algorithms To

Filter Out Unwanted Emails.

2) Medical Diagnosis:

* EXMAPLE : Classifying Medical Images To Detect Diseases Like

CANCER.

* USE CASE : Healthcare Providers Use Classifications Models To

Assists In Diagnosis Disease From Medical

Scans,Improving Accuracy And Speed.

3) Fraud Detection:

* EXMAPLE : Identifying Fraudulent Transactions In Banking.
* USE CASE : Financial Activities,Protecting Customers And

Reducing Losses.

4) Customer Segmentation :

* EXMAPLE : Grouping Customers Based On Purchasing Behavior.
* USE CASE : Business Use Classification To Segment Their

Customer Base For Targeted Marketing Campaigns

And Personalized Services.

5) Image Recognition :

* EXMAPLE : Classifying Objects In Images.
* USE CASE : Tech companies Use Classification Algorithms In

Applications Like Facial Recognition,Autonomous

Driving And Security Systems.Driving