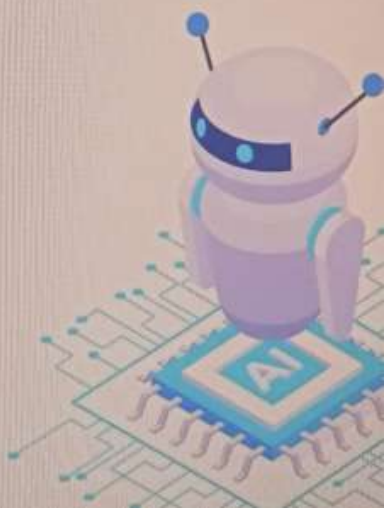
MACHINE LEARNING

Machine Learning is the science of getting computers to learn and act like humans do, and improve their learning over time in autonomous fashion, by feeding them data and information in the form of observations and real-world interactions.



HOW DOES MACHINE LEARNING WORK?

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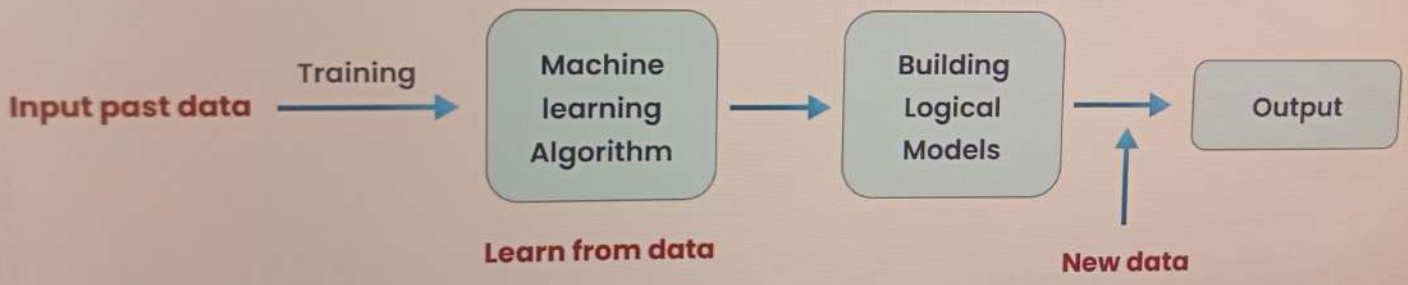
A Machine Learning system learns from historical data, builds the prediction models, and whenever it receives new data, predicts the output for it.



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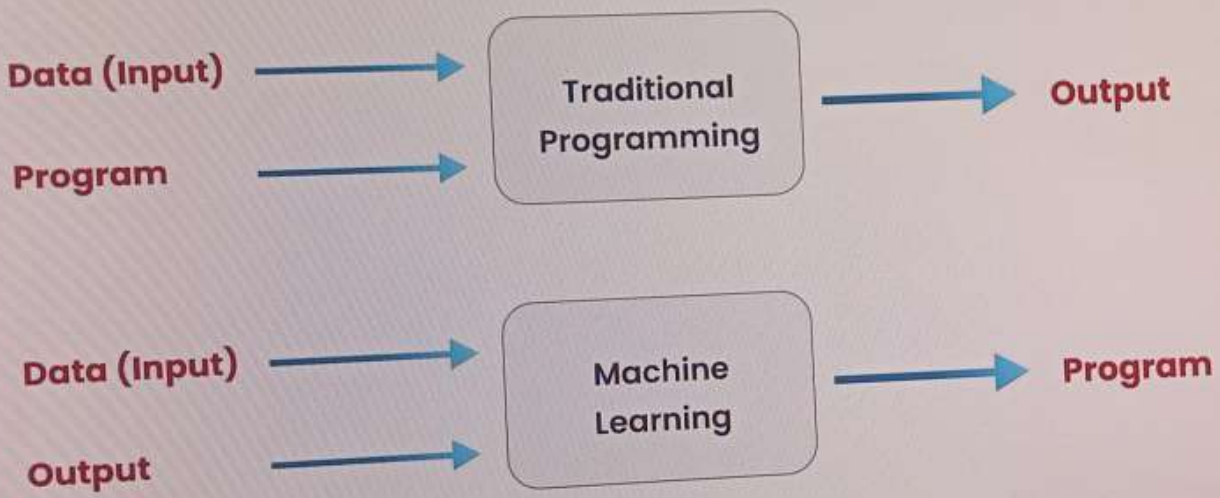
HOW DOES MACHINE LEARNING WORK?



CLASSIFICATIONS OF MACHINE LEARNING

- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning

ADVANTAGES OF MACHINE LEARNING

1. Easily identifies trends and patterns
2. No human intervention needed (automation)
3. Continuous Improvement
4. Handling multi-dimensional and multi-variety data
5. Wide Applications

DISADVANTAGES OF MACHINE LEARNING

1. Data Acquisition
2. Time and Resources
3. Interpretation of Results
4. High error-susceptibility

USE OF MACHINE LEARNING

- Automatic language Translation
- Medical Diagnosis
- Stock Market trading
- Online Fraud Detection
- Virtual Personal Assistant
- Email Span & Malware Filtering
- Self driving cars
- Product recommendations
- Traffic Prediction
- Speech Recognition
- Image Recognition

MACHINE LEARNING +

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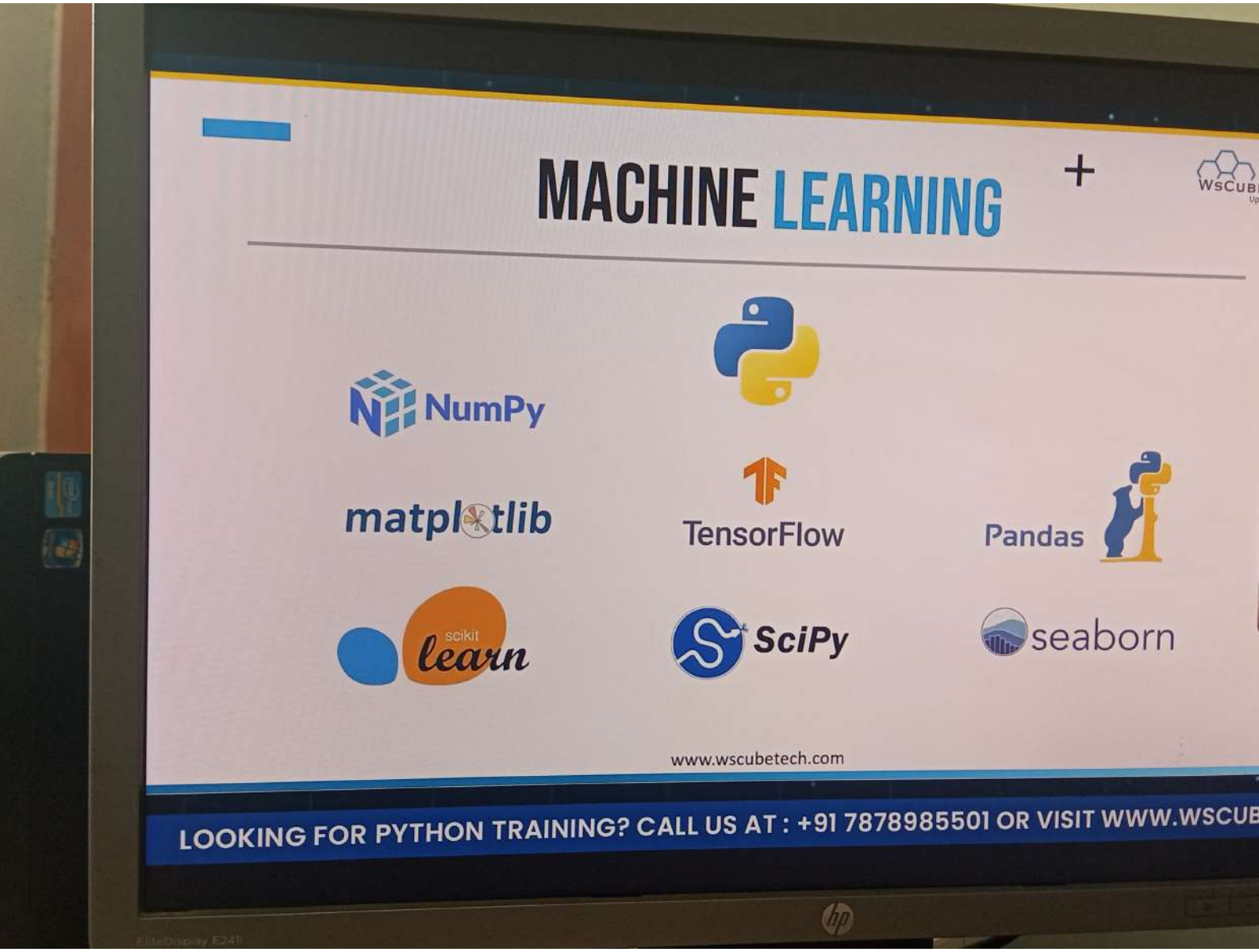
1. Exploratory Data Analysis
2. Handling Missing value
3. Handlings outliners
4. Categorical Encoding
5. Normalizing & standardization.

1. Correlation
2. Forward Elimination
3. Backward Elimination
4. Univariate Selection
5. Random Forest Importance
6. Feature selection with Decision Trees

- End to End ML Projects
- Model Deployments
- Dockers And Kubernetes
- Gridsearch, RandomisedSreach, Hyperopot, Genetics Algorithums
- Hyper parameter Tuning
- Linear, Logistic Regression, Decision Tree, Random Forest, Kmeans,
- Machine Learning Algorithums- Regression And classification, Clustering
- Feature Selection
- Feature Engineering
- Exploratory Data Analysis
- Progamming Language- Python, R


MACHINE LEARNING
+
NumPy
matplotlib
TensorFlow
Pandas
scikit learn
SciPy
seaborn
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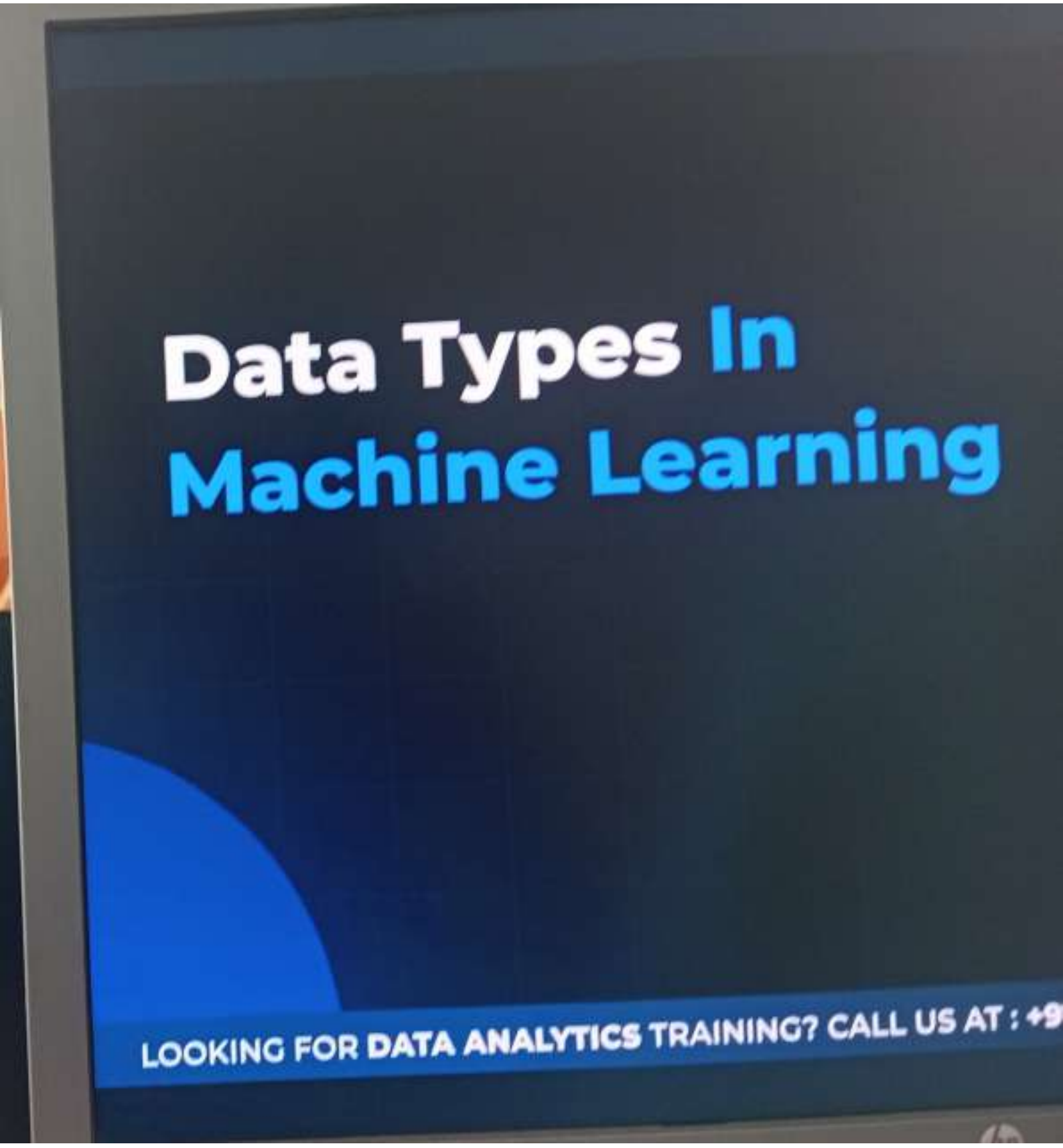
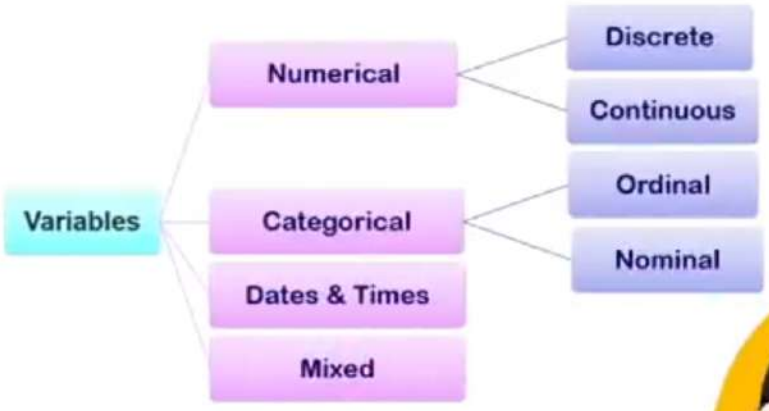
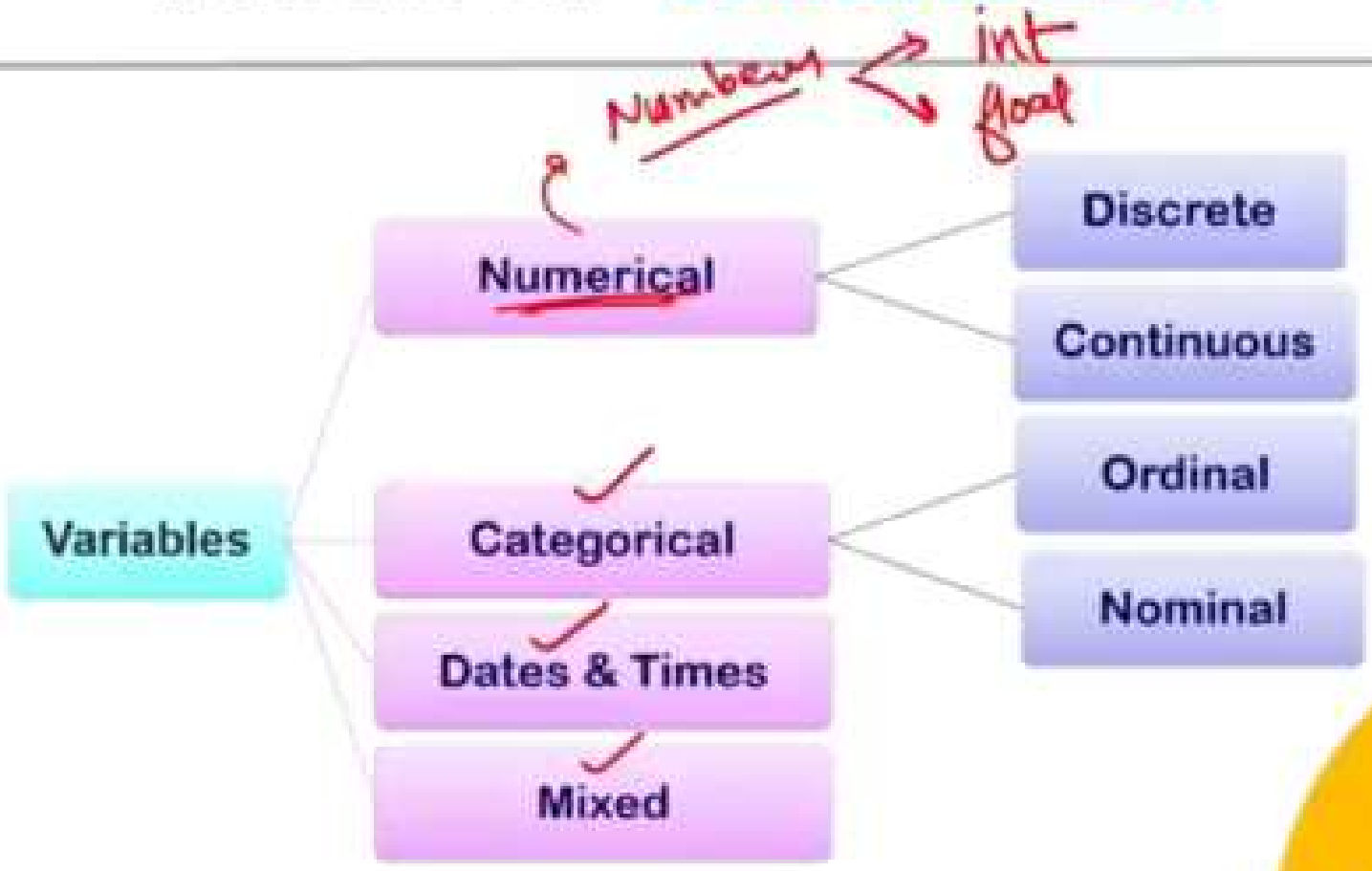

Data Types In
Machine Learning
LOOKING FOR DATA ANALYTICS TRAINING? CALL US AT : +9

TYPES OF VARIABLES

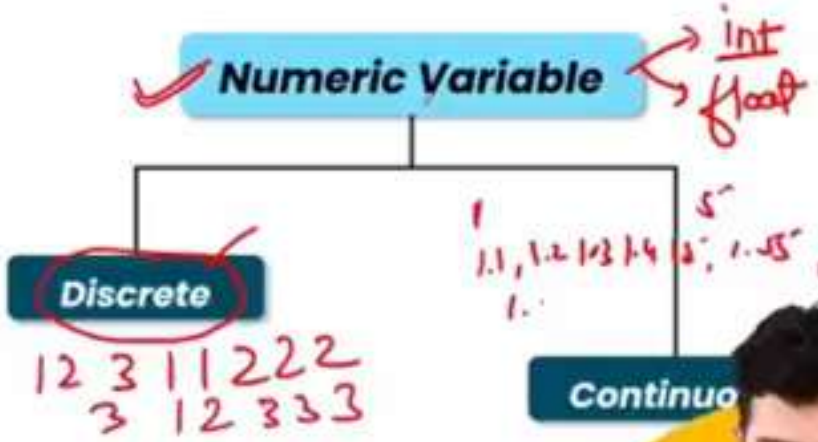


TYPES OF VARIABLES



NUMERICAL VARIABLES

	A	B	C
1	Age	Salary	exp
2	15	10000	1
3	20	20000	2
4	25	25000	3
5	30	30000	4
6	35	35000	5
7	40	40000	6
8	45	45000	7
9	50	50000	8
10	55	55000	1



CATEGORICAL VARIABLES

	A	B	C	D
1	Emp_id	Gender	Remarks	Language
2	12	Male	Nice	Python
3	13	Female	Good	Java
4	14	Female	Great	C++
5	15	Male	Great	C#
6	16	Female	Nice	HTML

DATE TIME & MIXED VARIABLES

1. ***Date Time Variables :***

   Date Time can contain date only , time only.

2. ***Mixed Variables :***

   Variables which contains numbers and categories data.


DATA TYPES
NUMERICAL
NUMBER
DATE
MIXED
CATEGORICAL
NAME

Data Cleaning

- Data cleaning is the process of preparing data for analysis / ML / DL by removing or modifying data that is incorrect, incomplete, irrelevant, duplicated, or improperly formatted.

- Handling Missing Data
- Outlier Detection and Handling
- Data Scaling and Transformation
- Encoding Categorical Variables
- Handling Duplicates
- Dealing with Inconsistent Data