

DATA SCIENCE

101

Presented by ACM-W BPDC



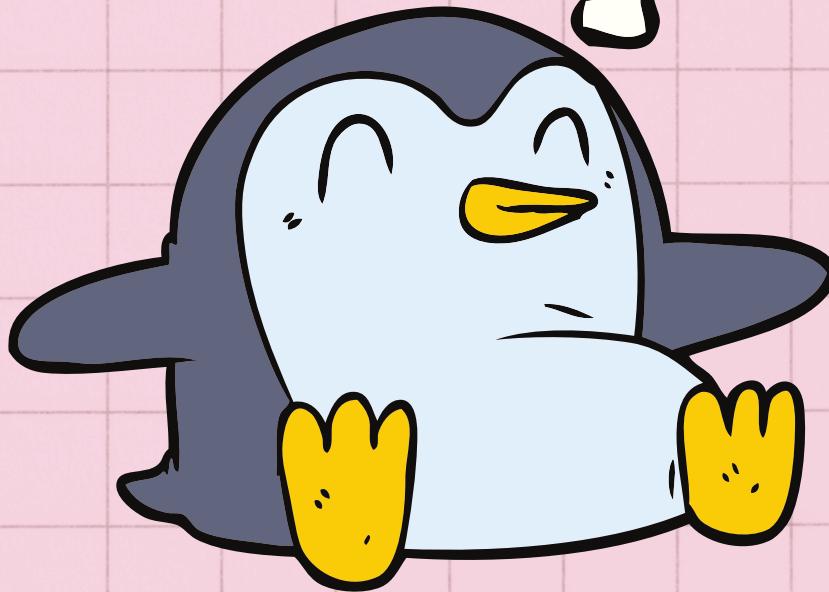
Data Science????

Data science is about:

- obtaining,
- processing,
- and analyzing data

to gain insights for many purposes.

DATA + SCIENCE =
DATA SCIENCE ????



Why Data Science rules the world??



Weather Forecasting & Disaster Prediction

Data scientists can develop models to predict natural disasters like earthquakes, hurricanes, and floods.

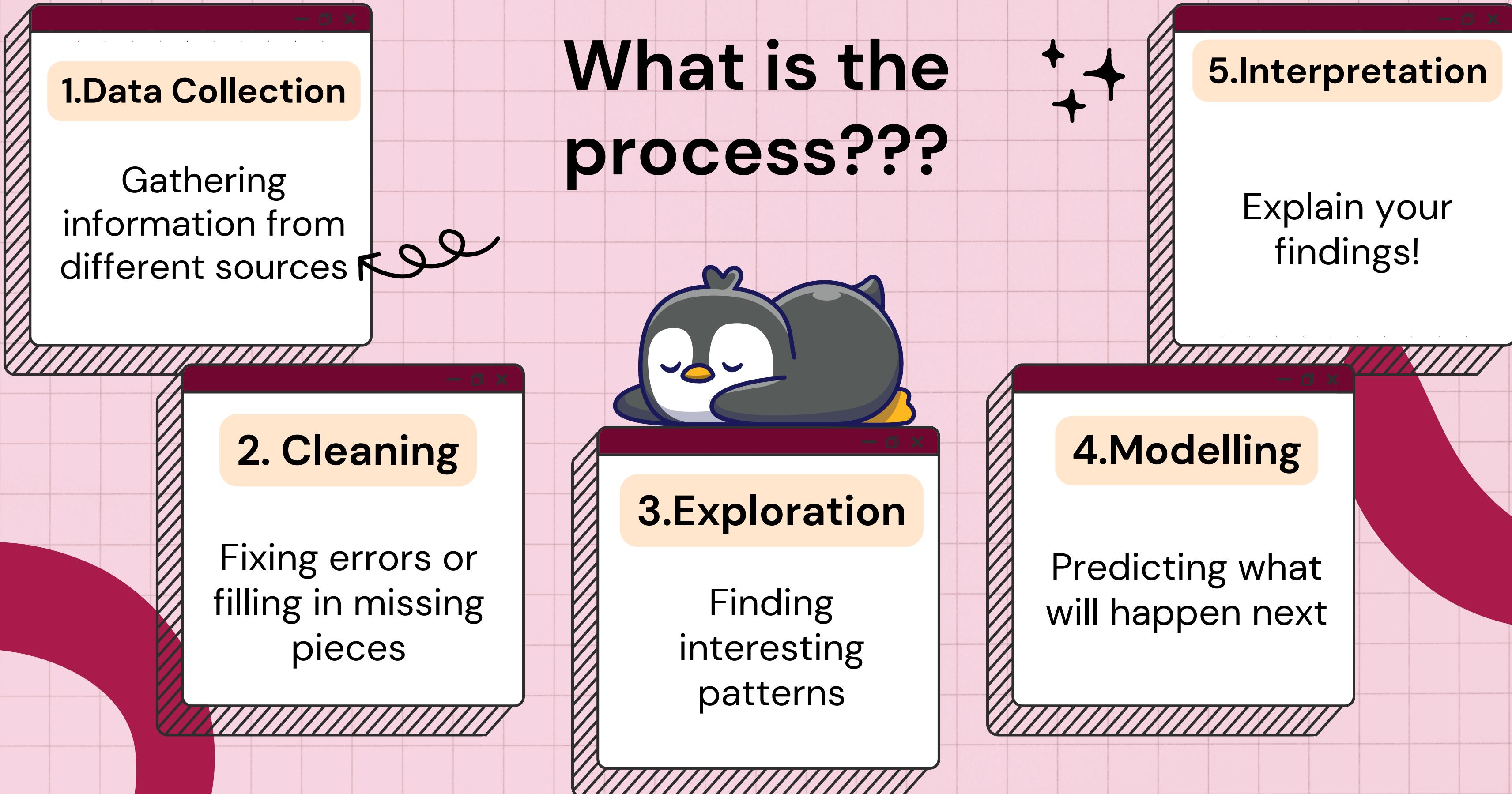
Gaming

By analyzing a player's behavior and preferences, data science can help create personalized gaming experiences.

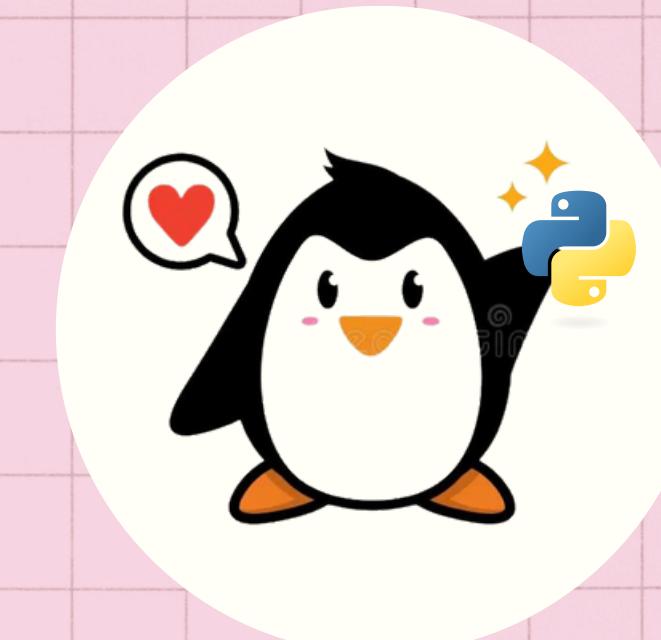
Social Media

Data science can identify trending topics and hashtags in real-time.

What is the process???



What all do we need?



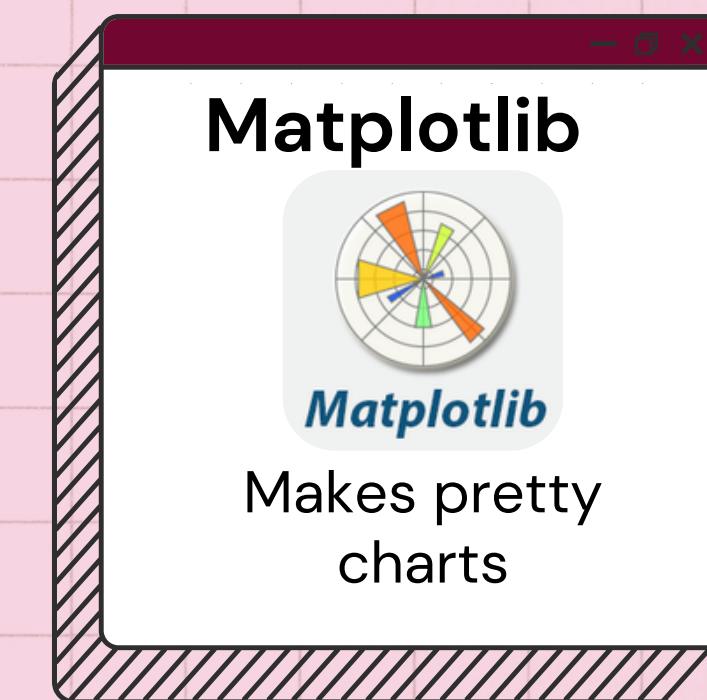
python™



Pandas



pandas
Helps read data
easily



Matplotlib



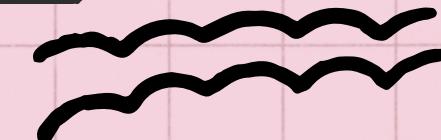
Matplotlib
Makes pretty
charts



Scikit Learn



Performs the
predictions ad
calculations

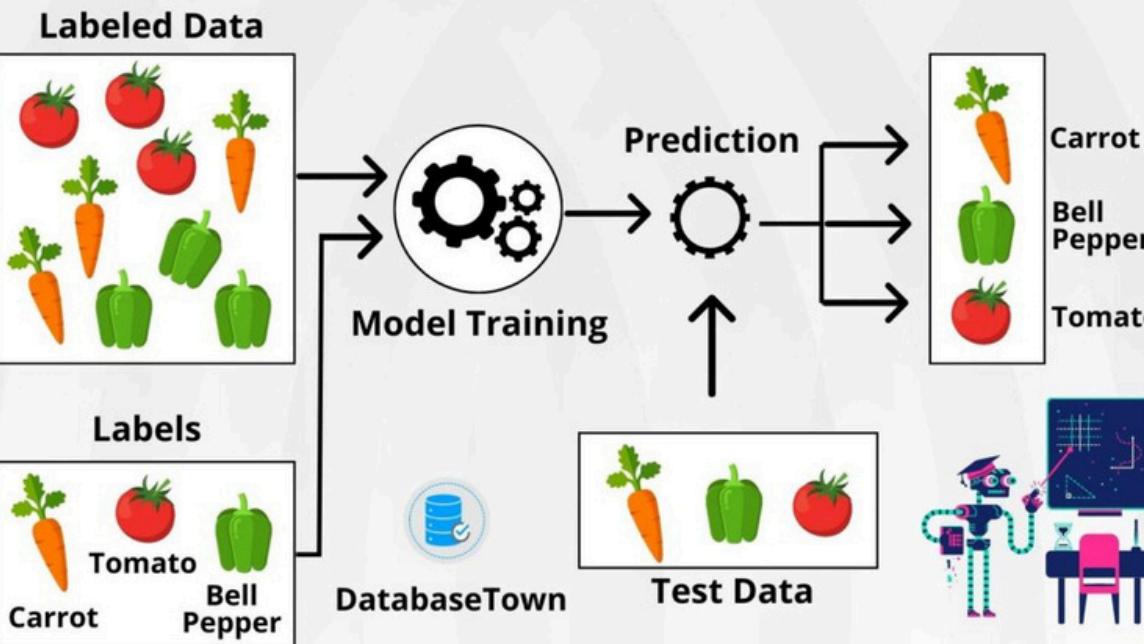


Supervised

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SUPERVISED LEARNING

Supervised machine learning is a branch of artificial intelligence that focuses on training models to make predictions or decisions based on labeled training data.

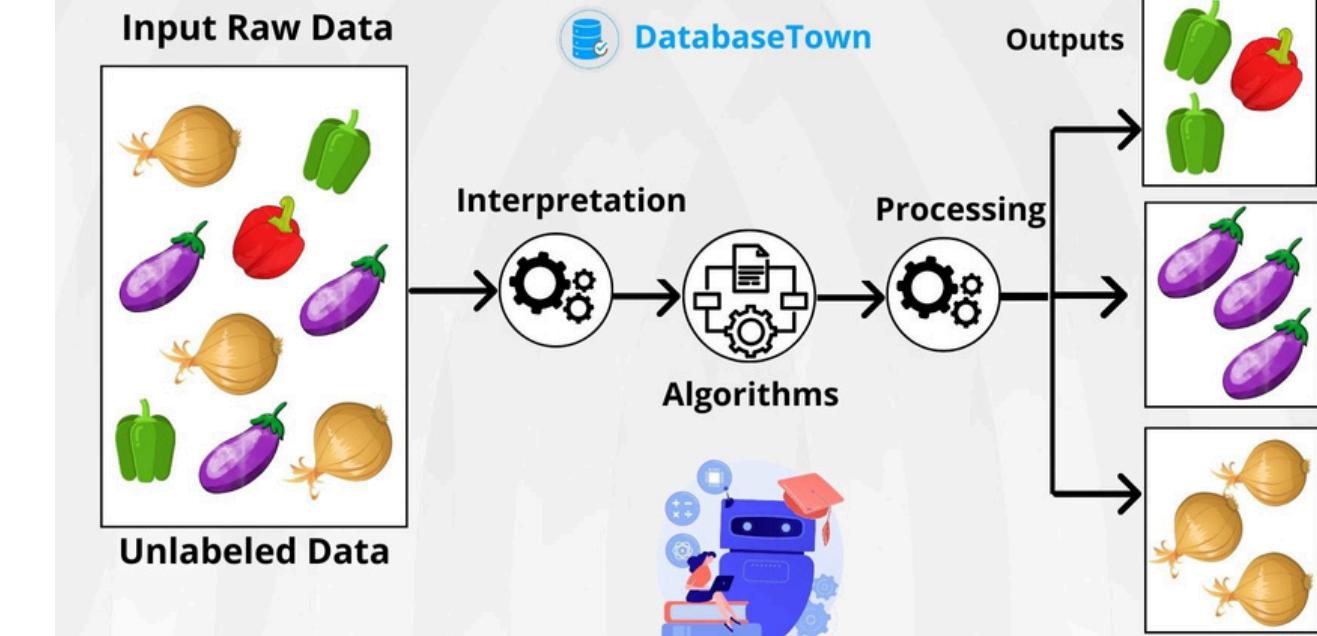


Unsupervised

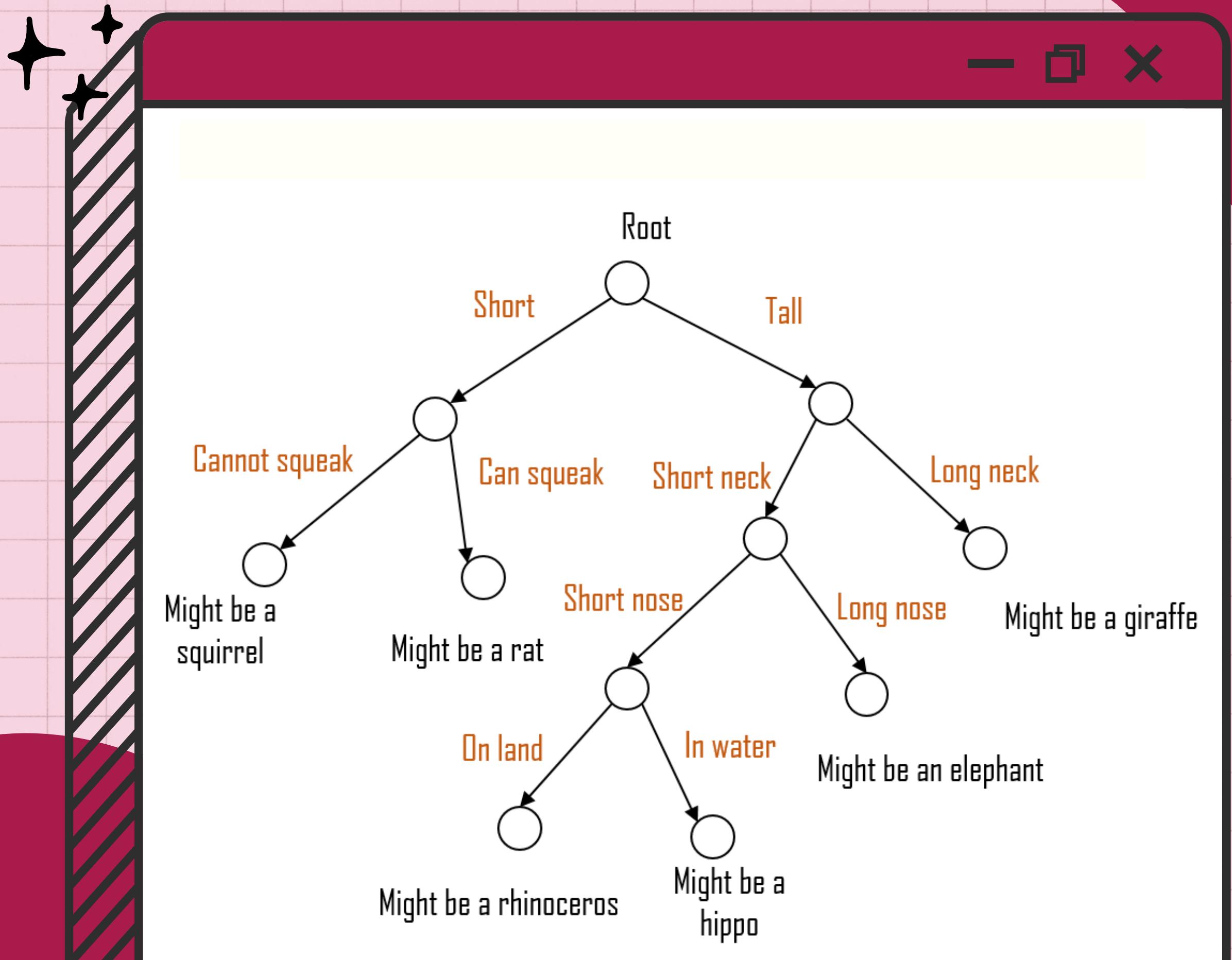
VS

UNSUPERVISED LEARNING

Unsupervised learning is a type of machine learning where the algorithm learns from unlabeled data without any predefined outputs or target variables.



Decision Tree



Thank You

