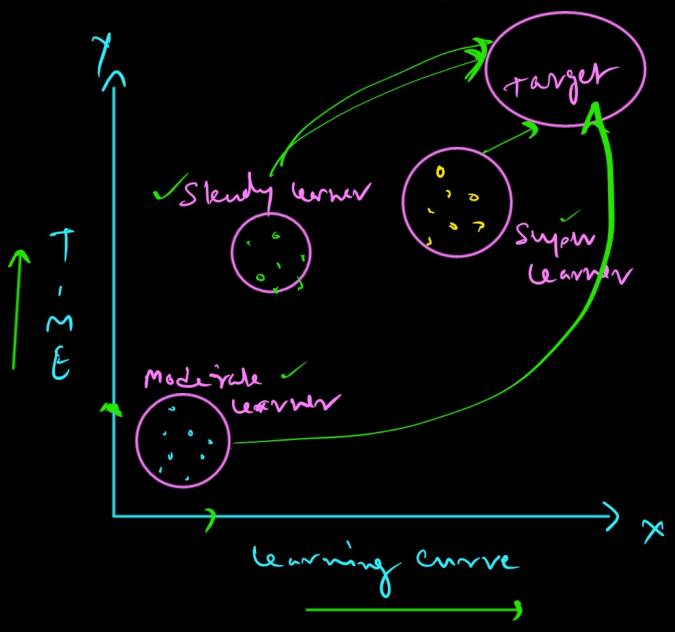
Day 03 - Batch03.



patterns
characteristics
dimensions
features
} categories.

✓ ⟶ Education
✓ ⟶ Math.
✓ ⟶ Python.
✓ ⟶ Data.
✓ ⟶ IQ
} dimensions.

✓ ⟶ classification
✓ ⟶ Regression
} predict.

concept (lecture)	Hands on (ML Project).
✓ ① AI ✓ ② ML ✓ ③ DL → V. V. I ✓ ④ Gen AI ✓ ⑤ LLM → upcoming	ML Classification (Plant maintenance Prediction) --- Best Practices.

- Spam detection
- Auto email writing.

ML

Qty -
Freight -
discount -
Tax.

→ | product price |

Logical program.

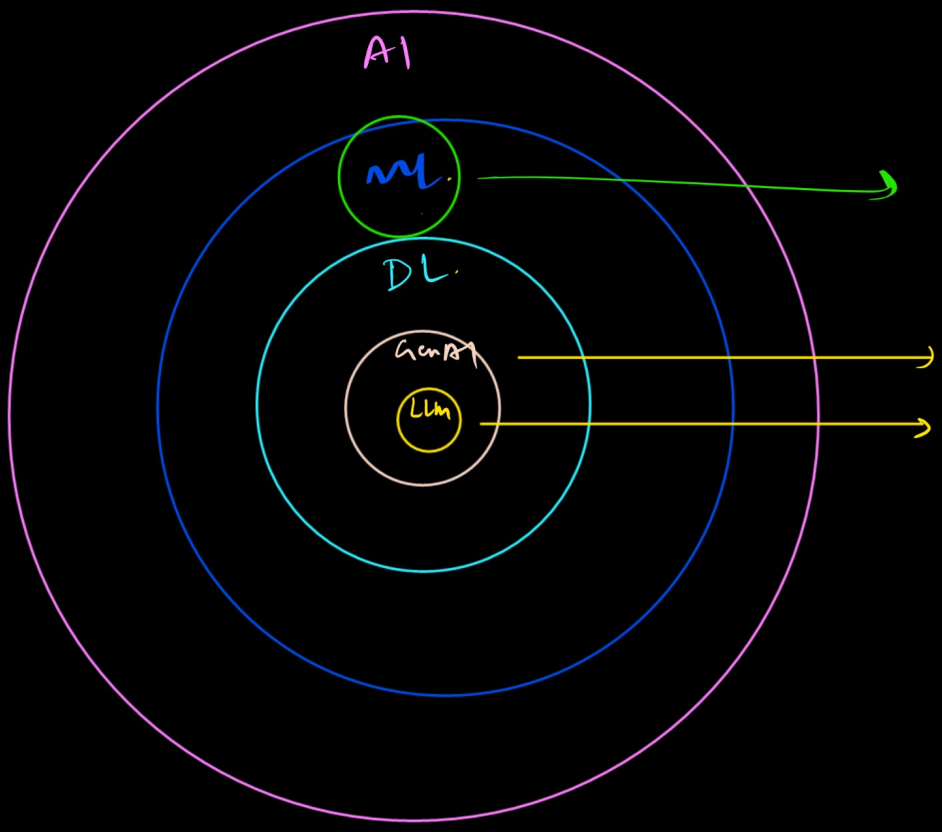
Rules ✗

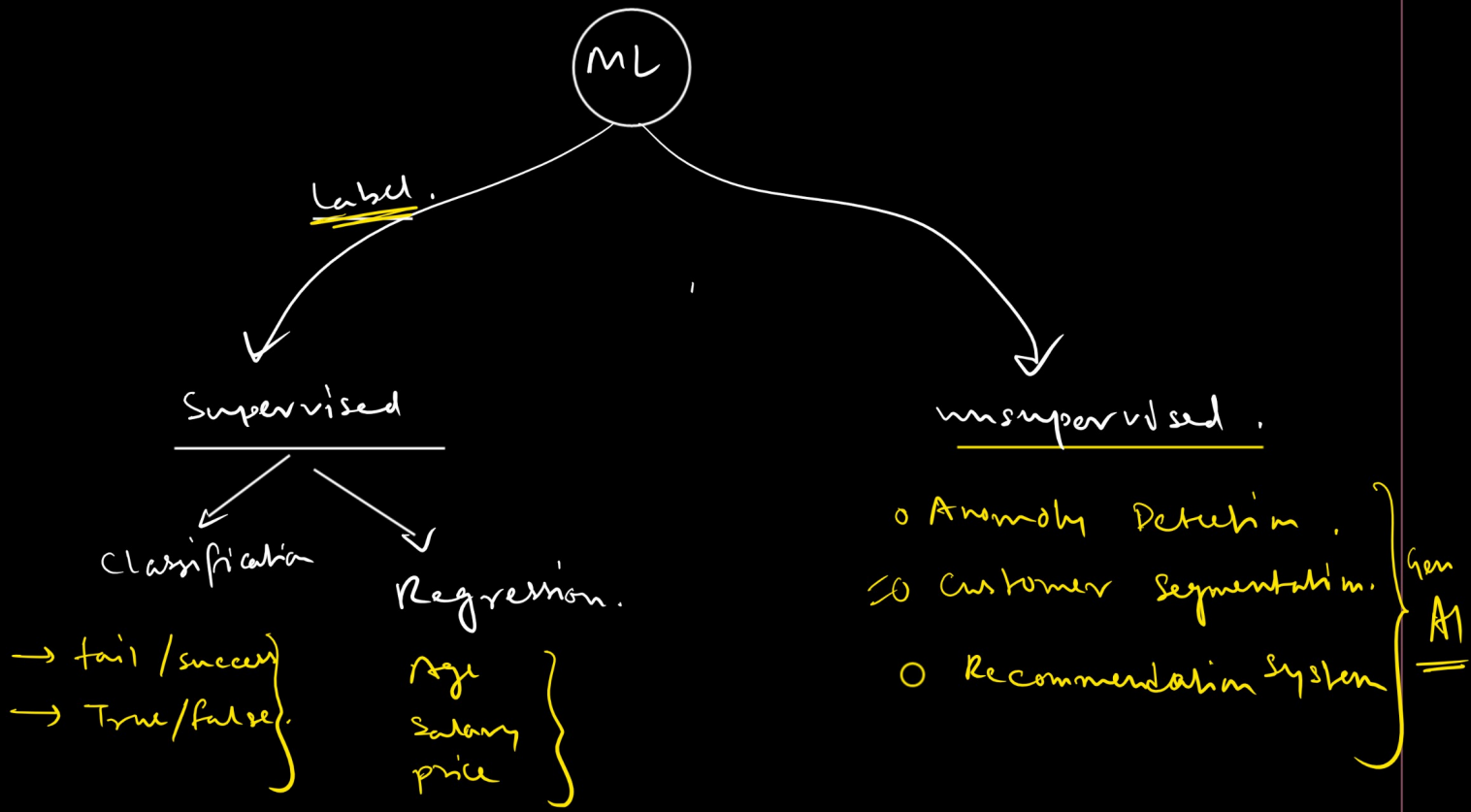
Identify the Sol. of Prob.

1. Logical Sol. (Rules - Prog.)
2. ML Prob.
3. Gen AI.

Linear Algebra
Calculus
statistics
probility

MATH


AI
ML
DL
Gen AI
LLM


ML
Label.
Supervised
unsupervised.
Classification
→ fail / success
→ True / false.
Regression.
Age
salary
price
o Anomaly Detection.
o Customer Segmentation.
o Recommendation System
Gen AI

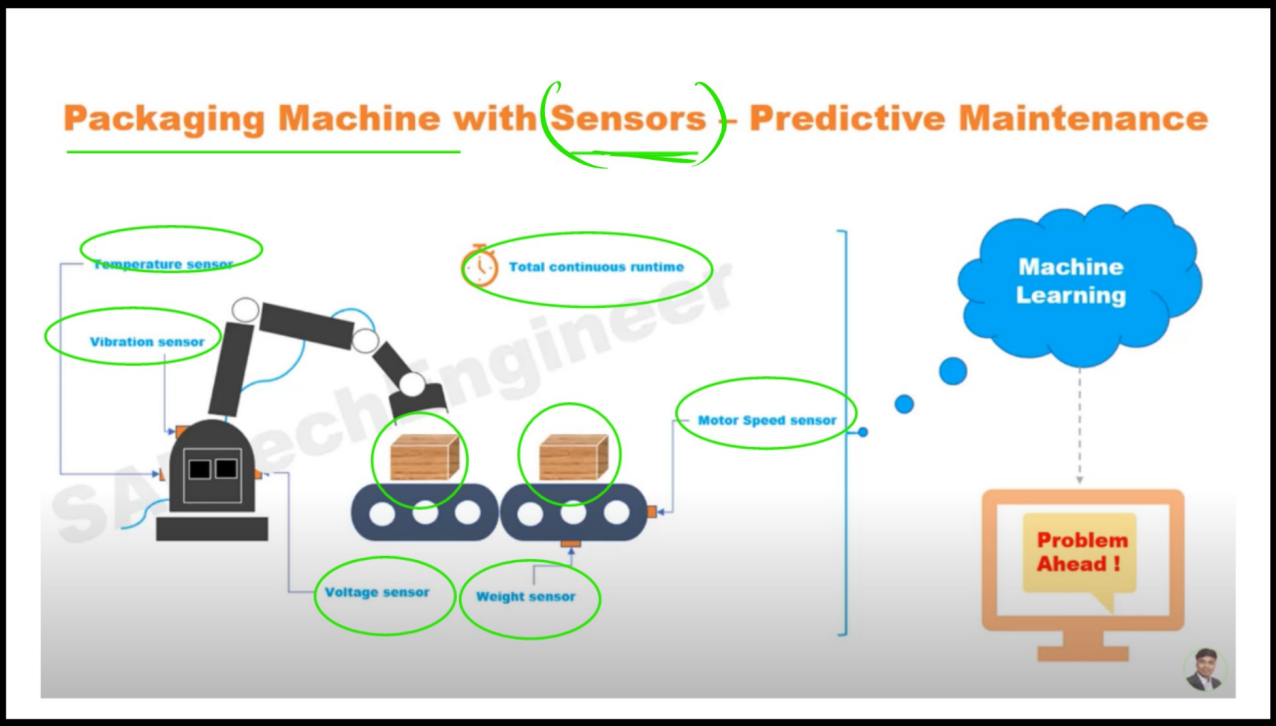
→ Label
→ Annotation
→ Category
→ Characteristics
→ parameters

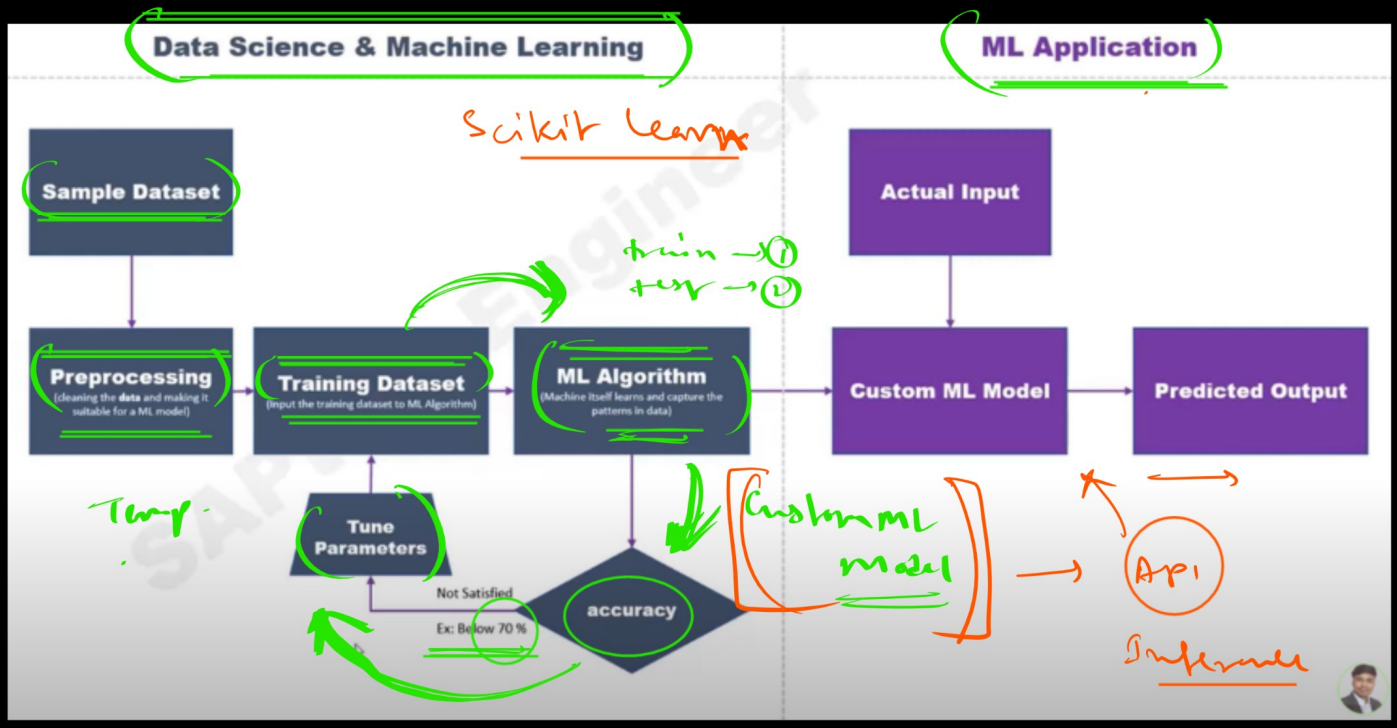
} Supervised learning

No Label
No Annotation

} → unsupervised learning try to find the patterns.

Gen AI





- numpy → numerical operation.
- pandas → Data Manipulation