

This week we will work on

ENGLISH FOR MACHINE LEARNING & READING-LISTENING ACTIVITIES

INTRODUCTION TO MACHINE LEARNING-I

Machine Learning (noun) →

•**Example:** "Machine learning is transforming industries through data-driven insights."

Algorithm (noun) →

•**Example:** "The algorithm improves its predictions with each training cycle."

Dataset (noun) →

•**Example:** "The dataset contains thousands of labelled images for training."

INTRODUCTION TO MACHINE LEARNING-2

Model (noun) →

•**Example:** "The model predicts house prices based on historical data."

Training (noun) →

•**Example:** "The training process involves feeding data into the model."

Testing (noun) →

•**Example:** "Testing ensures that the model performs well on unseen data."

INTRODUCTION TO MACHINE LEARNING-3

Validation (noun) →

•**Example:** "Validation is used to tune hyperparameters for better performance."

Feature (noun) →

•**Example:** "Selecting the right features is crucial for accurate predictions."

Label (noun) →

•**Example:** "Labels in the dataset help the model learn to classify data."

INTRODUCTION TO MACHINE LEARNING-4

Supervised Learning (noun) →

•**Example:** "Supervised learning uses labeled data to train models."

Unsupervised Learning (noun) →

•**Example:** "Unsupervised learning finds hidden patterns in data without labels."

Reinforcement Learning (noun) →

•**Example:** "Reinforcement learning trains agents through rewards and penalties."

INTRODUCTION TO MACHINE LEARNING-5

Neural Network (noun) →

•**Example:** "A neural network mimics the human brain to solve complex problems."

Deep Learning (noun) →

•**Example:** "Deep learning algorithms excel in image and speech recognition tasks."

Hyperparameter (noun) →

•**Example:** "Adjusting hyperparameters can significantly improve model performance."

INTRODUCTION TO MACHINE LEARNING-6

Overfitting (noun) →

•**Example:** "Overfitting occurs when a model performs well on training data but poorly on testing data."

Underfitting (noun) →

•**Example:** "Underfitting happens when a model fails to capture the underlying patterns in the data."

Bias (noun) →

•**Example:** "High bias can lead to inaccurate predictions."

INTRODUCTION TO MACHINE LEARNING-7

Variance (noun) →

•**Example:** "High variance causes the model to perform inconsistently on different datasets."

Gradient Descent (noun) →

•**Example:** "Gradient descent minimizes the loss function during training."

Epoch (noun) →

•**Example:** "One epoch is a complete pass through the entire training dataset."

INTRODUCTION TO MACHINE LEARNING-8

Loss Function (noun) →

•**Example:** "The loss function measures the difference between predicted and actual values."

Optimization (noun) →

•**Example:** "Optimization algorithms improve model accuracy."

Classification (noun) →

•**Example:** "Classification models categorize data into predefined classes."

INTRODUCTION TO MACHINE LEARNING-9

Regression (noun) →

•**Example:** "Regression models predict continuous values like house prices."

Clustering (noun) →

•**Example:** "Clustering groups similar data points together."

Decision Tree (noun) →

•**Example:** "Decision trees are used for both classification and regression tasks."

INTRODUCTION TO MACHINE LEARNING-10

Random Forest (noun) →

•**Example:** "Random forests combine multiple decision trees for better accuracy."

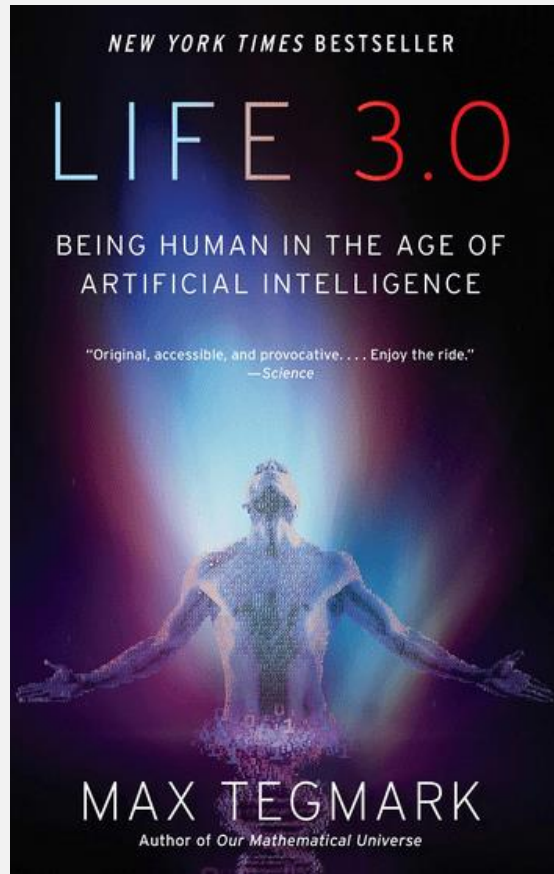
Support Vector Machine (SVM) (noun) →

•**Example:** "SVM is effective for high-dimensional classification problems."

Prediction (noun) →

•**Example:** "The model's prediction is based on input data and learned patterns."

BOOK/BLOG RECOMMENDATION



HUGGING FACE

KAGGLE

GOOGLE AI BLOG: <https://ai.google/latest-news/>

OPEN AI BLOG: <https://openai.com/news/research/>

Towards Data Science PLATFORM: <https://towardsdatascience.com/>

META AI BLOG: <https://ai.meta.com/blog/?page=1>

AI NEWS: <https://www.marktechpost.com/>

APPLE MACHINE LEARNING RESEARCH: <https://machinelearning.apple.com/>

Massachusetts Institute of Technology : <https://news.mit.edu/topic/artificial-intelligence2>

LISTENING

BBC LEARNING ENGLISH

MACHINE LEARNING- LISTENING ACTIVITY.

<https://128.pl/jJdUn>



NO ASSIGNMENT

RECOVERY WEEK!

Send me any previous assignment if you haven't done already!



EOF

CREDITS

BBC LEARNING ENGLISH