

Linear graphs in Machine Learning

Machine learning often uses line graphs to represent relationships. A line graph displays the values of a linear function: $y = ax + b$.

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The line graph shows the values of a linear function: $y = ax + b$

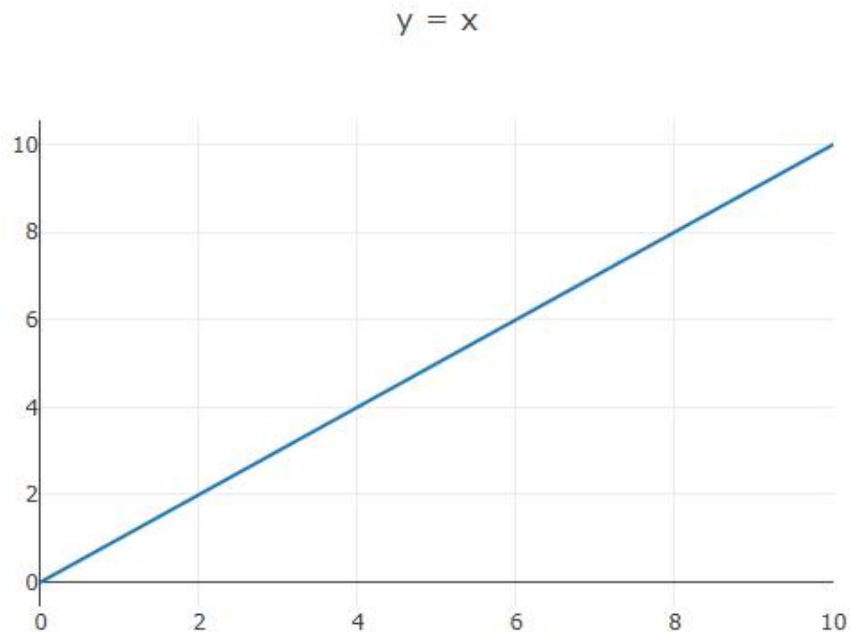
Keywords:

1. **Linear?**
2. **Slope** (Corner)
3. **Intercept** (Starting value)

Linear

Linear means straight. A linear graph is a straight line.

The graph consists of two axes: the x-axis (horizontal) and the y-axis (vertical).



For example:

```
const xValues = []; const yValues = []; // Generate values for (let x = 0; x = 1
```

Slope

Slope is the angle of a graph.

Slope is the value of 'a' in the linear graph: $y = ax$

In this example, **slope = 1.2:**

For example:

```
let slope = 1.2; const xValues = []; const yValues = []; // Generate values for
```

Intercept

Intercept is the starting value of the graph.

Intercept is the value of **b** in the linear graph: $y = ax + b$

In this example, **slope = 1.2** and **intercept = 7:**

For example:

```
let slope = 1.2; let intercept = 7; const xValues = []; const yValues = []; // G
```

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