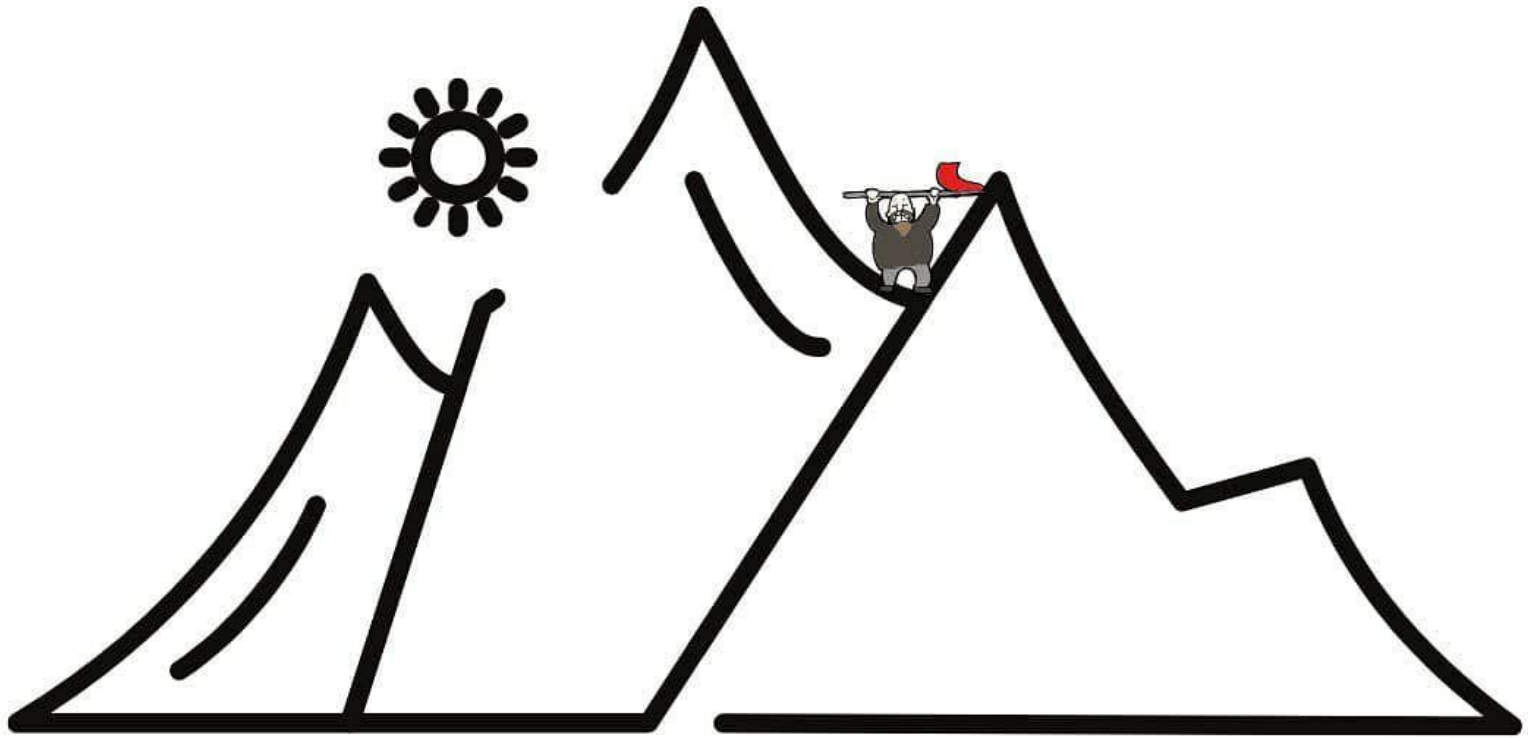# What is Loss Function????

- **Loss Functions are used to check how well your model is performing. If your model predicted outputs are far from the original output, then your loss will be high or else it will be low.**
- **Optimization algorithms uses these functions to update the weights(Like finding the optimal values(local or global minima) where your loss is low)**
- **Same like blind human crawling down the hill to find the land.**

Loss Functions

Regression

- **Mean Squared Error Loss**
- **Mean Squared Logarithmic Error Loss**
- **Mean Absolute Error Loss**

Classification

- **Binary Cross-Entropy**
- **Hinge Loss**
- **Squared Hinge Loss**
- **Multi-Class Cross-Entropy Loss**
- **Sparse Multiclass Cross-Entropy Loss**
- **Kullback Leibler Divergence Loss**