Confusion Matrix - Definition & Formulas

	Predicted Positive	Predicted Negative
Actual Positive	ТР	FN
Actual Negative	FP	TN

1. Precision

- The percentage of positive predictive value to the sum of correctly predicted positive and wrongly predicted positive
- Out of all positive predictions, how many are actually positive?

2. Recall - Out of all positive inputs, how much did it predict correctly as positive?

3. **F1-score** - Overall performance of true positive/true negative

4. **Accuracy** - What is the overall correctness/performance/prediction of the model

- Macro avg Average performance of recall, precision & F1 measure recall= recall(TP)+recall(TN)/2 Precision = precision (TP)+precision(TN)/2
- 6. **Weighted avg** how many instances belong to each class

 Precision = precision(TP)* (total count of TP/total input)/ precision(TN)* (total count of TN/total input)