

# TDE 1

---

Alunos: Marcio Vinicius de Souza da Rocha Turma: BCC Noturno 5º Período

---

## Resultados algoritmo kNN

### SKLearn

```
[ 53  0  0  0  1  0  0  0  0  0]
[  0 55  0  0  0  0  0  0  0  0]
[  0  0 53  0  0  0  0  0  0  0]
[  0  0  0 55  0  0  0  0  0  0]
[  0  0  0  0 53  0  0  1  0  0]
[  0  0  0  0  0 54  0  0  0  1]
[  0  1  0  0  0  0 53  0  0  0]
[  0  0  0  0  0  0  0 54  0  0]
[  0  2  0  1  0  0  0  1 48  0]
[  0  0  0  0  1  0  0  0  0 53]
Score: 98,4%
```

### Marcio

```
[ 54  0  0  0  0  0  0  0  0  0]
[  0 55  0  0  0  0  0  0  0  0]
[  0  0 53  0  0  0  0  0  0  0]
[  0  0  0 55  0  0  0  0  0  0]
[  0  0  0  0 54  0  0  0  0  0]
[  0  0  0  0  0 54  0  0  0  1]
[  0  0  0  0  0  0 54  0  0  0]
[  0  0  0  0  0  0  0 54  0  0]
[  0  3  0  1  0  0  0  0 48  0]
[  0  0  0  0  1  0  0  0  1 52]
Score: 98,7%
```

função utilizada para calcular a distância: 
$$\sqrt{\sum_{n=0}^{} ((p_{\{n\}} - q_{\{n\}})^2 + \dots + (p_{\{n\}} - q_{\{n\}})^2)}$$

sendo  $P$  &  $Q$  instâncias distintas,  $n$  é o índice do atributo (*coluna*) tal que este

função utilizada para calcular o **Score**: 
$$\text{Score} = \frac{\text{acertos}}{(\text{acertos} + \text{erros})}$$