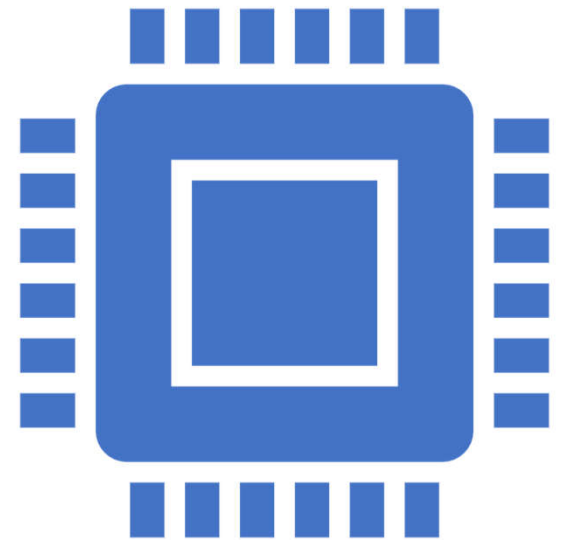# Aulas Práticas

# IDE's

- R: RStudio (Anaconda)
- Python:
    - Spyder
    - Jupyter Notebook, JupyterLab
    - Google Colab

# Projeto Web R





https://cientistadedados.shinyapps.io/AutoML/

# Dados

- Análise de Evasão de Clientes
- Formato csv delimitado por ponto e vírgula

| Arquivo | Instâncias | Classe |
| --- | --- | --- |
| Churn_treino | 10 k | Sim |
| Churn_teste | 2,5 k ~ | Não |
| Churn_prever.csv | 9 | Não |

# Dados

| CreditScore | Geography | Gender | Age | Tenure | Balance | NumOfProducts | HasCrCard | IsActiveMember | EstimatedSalary | Exited |
|---|---|---|---|---|---|---|---|---|---|---|
| 619 | France | Female | 42 | 2 | 0 | 1 | 1 | 1 | 10134888 | 1 |
| 608 | Spain | Female | 41 | 1 | 8380786 | 1 | 0 | 1 | 11254258 | 0 |
| 502 | France | Female | 42 | 8 | 1596608 | 3 | 1 | 0 | 11393157 | 1 |
| 699 | France | Female | 39 | 1 | 0 | 2 | 0 | 0 | 9382663 | 0 |
| 850 | Spain | Female | 43 | 2 | 12551082 | 1 | 1 | 1 | 790841 | 0 |
| 645 | Spain | Male | 44 | 8 | 11375578 | 2 | 1 | 0 | 14975671 | 1 |
| 822 | France | Male | 50 | 7 | 0 | 2 | 1 | 1 | 100628 | 0 |
| 376 | Germany | Female | 29 | 4 | 11504674 | 4 | 1 | 0 | 11934688 | 1 |
| 501 | France | Male | 44 | 4 | 14205107 | 2 | 0 | 1 | 749405 | 0 |
| 684 | France | Male | 27 | 2 | 13460388 | 1 | 1 | 1 | 7172573 | 0 |
| 528 | France | Male | 31 | 6 | 10201672 | 2 | 0 | 0 | 8018112 | 0 |
| 497 | Spain | Male | 24 | 3 | 0 | 2 | 1 | 0 | 7639001 | 0 |
| 476 | France | Female | 34 | 10 | 0 | 2 | 1 | 0 | 2626098 | 0 |
| 549 | France | Female | 25 | 5 | 0 | 2 | 0 | 0 | 19085779 | 0 |
| 635 | Spain | Female | 35 | 7 | 0 | 2 | 1 | 1 | 6595165 | 0 |
| 616 | Germany | Male | 45 | 3 | 14312941 | 2 | 0 | 1 | 6432726 | 0 |
| 653 | Germany | Male | 58 | 1 | 13260288 | 1 | 1 | 0 | 509767 | 1 |
| 549 | Spain | Female | 24 | 9 | 0 | 2 | 1 | 1 | 1440641 | 0 |
| 587 | Spain | Male | 45 | 6 | 0 | 1 | 0 | 0 | 15868481 | 0 |