

Desafio_03

Desafio 03

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Formatos

JSON (JavaScript Object Notation)

O que é:

- Formato de **texto** usado para armazenar e trocar dados.
- Baseado em **pares chave:valor** (tipo dicionário)
- Estrutura hierárquica: permite listas dentro de listas, objetos dentro de objetos.

Parquet

O que é:

- Formato **binário colunar** usado para **armazenamento eficiente de grandes datasets**.
- Cada coluna de dados é armazenada separadamente, o que ajuda na compressão e na leitura rápida.

Base de dados usada

- <https://www.kaggle.com/datasets/poushal02/student-academic-stress-real-world-dataset?resource=download>

Exportação

Como o meu arquivo está em CSV, estou exportando em Parquet e JSON para fazer os testes.

```
# Usei o getwd() para saber para o destino dos arquivos exportados.
```

```
dados = import("C:/Users/rafae/Downloads/academic-stress.csv")
```

```
# exportando para parquet
```

```
export(dados, "../Downloads/academic-stress1.parquet")
```

```
#Carregando a base agora nos novos formatos
```

```
parquet <- read_parquet("../Downloads/academic-stress1.parquet")
```

```
str(parquet)
```

```
tibble [140 x 9] (S3: tbl_df/tbl/data.frame)
```

```
$ Timestamp : chr [1:140] "24/07/2025 22:00:00"
```

```
$ Your Academic Stage : chr [1:140] "undergraduate"
```

```
$ Peer pressure : int [1:140] 4 3 1 3 3 3 5 3
```

```
$ Academic pressure from your home : int [1:140] 5 4 1 2 3 3 5 2
```

```
$ Study Environment : chr [1:140] "Noisy" "Peaceful"
```

```
$ What coping strategy you use as a student? : chr [1:140] "Analyze the situation"
```

```
$ Do you have any bad habits like smoking, drinking on a daily basis?: chr [1:140] "No" "Yes"
```

```
$ What would you rate the academic competition in your student life : int [1:140] 3 3 1 3 3 3 5 3
```

```
$ Rate your academic stress index : int [1:140] 5 3 1 3 3 3 5 3
```

```
#exportando para JSON, depois importando e carregando
```

```
export(dados, "../Downloads/academic-stress2.json")
```

```
JSON <- import("../Downloads/academic-stress2.JSON")
```

```
str(JSON)
```

```
'data.frame': 140 obs. of 9 variables:
```

```
$ Timestamp : chr "24/07/2025 22:00:00"
```

```
$ Your Academic Stage : chr "undergraduate"
```

```
$ Peer pressure : int 4 3 1 3 3 3 5 3
```

```
$ Academic pressure from your home : int 5 4 1 2 3 3 5 2
```

```
$ Study Environment : chr "Noisy" "Peaceful"
```

```
$ What coping strategy you use as a student? : chr "Analyze the situation"
```

```

$ Do you have any bad habits like smoking, drinking on a daily basis?: chr  "No" "No" "No"
$ What would you rate the academic competition in your student life : int  3 3 2 4 4 4 4 3
$ Rate your academic stress index : int  5 3 4 3 5 4 4 3

```