



# VectorAssembler

- Recebe como entrada um data frame com diversos atributos
  - Produz como saída um único atributo, que é um vetor dos atributos de entrada
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## Atributos

Consumo	Cilindros	Cilindradas	RelEixoTraseiro	Peso	Tempo	TipoMotor	Transmissao	Marchas	Carburadors	HP
21	6	160	39	262	1646	0	1	4	4	110
21	6	160	39	2875	1702	0	1	4	4	110
228	4	108	385	232	1861	1	1	4	1	93
214	6	258	308	3215	1944	1	0	3	1	110
187	8	360	315	344	1702	0	0	3	2	175
181	6	225	276	346	2022	1	0	3	1	105
143	8	360	321	357	1584	0	0	3	4	245
244	4	1467	369	319	20	1	0	4	2	62
228	4	1408	392	315	229	1	0	4	2	95
192	6	1676	392	344	183	1	0	4	4	123
178	6	1676	392	344	189	1	0	4	4	123
164	8	2758	307	407	174	0	0	3	3	180
173	8	2758	307	373	176	0	0	3	3	180
152	8	2758	307	378	18	0	0	3	3	180
104	8	472	293	525	1798	0	0	3	4	205
104	8	460	3	5424	1782	0	0	3	4	215
147	8	440	323	5345	1742	0	0	3	4	230
324	4	787	408	22	1947	1	1	4	1	66
304	4	757	493	1615	1852	1	1	4	2	52
339	4	711	422	1835	199	1	1	4	1	65



caracteristicas
[21.0,6.0,160.0,39.0,262.0,1646.0,0.0,1.0,4.0,4.0]
[21.0,6.0,160.0,39.0,2875.0,1702.0,0.0,1.0,4.0,4.0]
[228.0,4.0,108.0,385.0,232.0,1861.0,1.0,1.0,4.0,1.0]
[214.0,6.0,258.0,308.0,3215.0,1944.0,1.0,0.0,3.0,1.0]
[187.0,8.0,360.0,315.0,344.0,1702.0,0.0,0.0,3.0,2.0]
[181.0,6.0,225.0,276.0,346.0,2022.0,1.0,0.0,3.0,1.0]
[143.0,8.0,360.0,321.0,357.0,1584.0,0.0,0.0,3.0,4.0]
[244.0,4.0,1467.0,369.0,319.0,20.0,1.0,0.0,4.0,2.0]
[228.0,4.0,1408.0,392.0,315.0,229.0,1.0,0.0,4.0,2.0]
[192.0,6.0,1676.0,392.0,344.0,183.0,1.0,0.0,4.0,4.0]
[178.0,6.0,1676.0,392.0,344.0,189.0,1.0,0.0,4.0,4.0]
[164.0,8.0,2758.0,307.0,407.0,174.0,0.0,0.0,3.0,3.0]
[173.0,8.0,2758.0,307.0,373.0,176.0,0.0,0.0,3.0,3.0]
[152.0,8.0,2758.0,307.0,378.0,18.0,0.0,0.0,3.0,3.0]
[104.0,8.0,472.0,293.0,525.0,1798.0,0.0,0.0,3.0,4.0]
[104.0,8.0,460.0,3.0,5424.0,1782.0,0.0,0.0,3.0,4.0]
[147.0,8.0,440.0,323.0,5345.0,1742.0,0.0,0.0,3.0,4.0]
[324.0,4.0,787.0,408.0,22.0,1947.0,1.0,1.0,4.0,1.0]
[304.0,4.0,757.0,493.0,1615.0,1852.0,1.0,1.0,4.0,2.0]
[339.0,4.0,711.0,422.0,1835.0,199.0,1.0,1.0,4.0,1.0]