



PolynomialExpansion

- Expande um atributo de acordo com o grau, criando novos atributos
- Exemplo, dois atributos x e y expandidos com grau 2:
 - $x, x * x, y, x * y, y * y$
- Entrada deve ser uma coluna com vetor de atributos

vetor	vetorpolyfeatures
[21.0,160.0,262.0]	[21.0,441.0,160.0,3360.0,25600.0,262.0,5502.0,41920.0,68644.0]
[21.0,160.0,2875.0]	[21.0,441.0,160.0,3360.0,25600.0,2875.0,60375.0,460000.0,8265625.0]
[228.0,108.0,232.0]	[228.0,51984.0,108.0,24624.0,11664.0,232.0,52896.0,25056.0,53824.0]
[214.0,258.0,3215.0]	[214.0,45796.0,258.0,55212.0,66564.0,3215.0,688010.0,829470.0,1.0336225E7]
[187.0,360.0,344.0]	[187.0,34969.0,360.0,67320.0,129600.0,344.0,64328.0,123840.0,118336.0]
[181.0,225.0,346.0]	[181.0,32761.0,225.0,40725.0,50625.0,346.0,62626.0,77850.0,119716.0]
[143.0,360.0,357.0]	[143.0,20449.0,360.0,51480.0,129600.0,357.0,51051.0,128520.0,127449.0]
[244.0,1467.0,319.0]	[244.0,59536.0,1467.0,357948.0,2152089.0,319.0,77836.0,467973.0,101761.0]
[228.0,1408.0,315.0]	[228.0,51984.0,1408.0,321024.0,1982464.0,315.0,71820.0,443520.0,99225.0]
[192.0,1676.0,344.0]	[192.0,36864.0,1676.0,321792.0,2808976.0,344.0,66048.0,576544.0,118336.0]
[178.0,1676.0,344.0]	[178.0,31684.0,1676.0,298328.0,2808976.0,344.0,61232.0,576544.0,118336.0]
[164.0,2758.0,407.0]	[164.0,26896.0,2758.0,452312.0,7606564.0,407.0,66748.0,1122506.0,165649.0]
[173.0,2758.0,373.0]	[173.0,29929.0,2758.0,477134.0,7606564.0,373.0,64529.0,1028734.0,139129.0]
[152.0,2758.0,378.0]	[152.0,23104.0,2758.0,419216.0,7606564.0,378.0,57456.0,1042524.0,142884.0]
[104.0,472.0,525.0]	[104.0,10816.0,472.0,49088.0,222784.0,525.0,54600.0,247800.0,275625.0]
[104.0,460.0,5424.0]	[104.0,10816.0,460.0,47840.0,211600.0,5424.0,564096.0,2495040.0,2.9419776E7]
[147.0,440.0,5345.0]	[147.0,21609.0,440.0,64680.0,193600.0,5345.0,785715.0,2351800.0,2.8569025E7]
[324.0,787.0,22.0]	[324.0,104976.0,787.0,254988.0,619369.0,22.0,7128.0,17314.0,484.0]
[304.0,757.0,1615.0]	[304.0,92416.0,757.0,230128.0,573049.0,1615.0,490960.0,1222555.0,2608225.0]
[339.0,711.0,1835.0]	[339.0,114921.0,711.0,241029.0,505521.0,1835.0,622065.0,1304685.0,3367225.0]