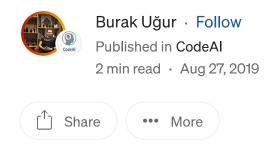


Doğrusal ve Polinomal Regresyon





Regresyon Nedir?

İki yada daha fazla değişken arasındaki ilişkiyi analiz etme metodudur.

x=Bağımsız değişken y=Bağımlı değişken

1-Doğrusal Regresyon(Lineer Regression)

 $Yi = \beta 0 + \beta 1Xi$

Şeklinde formülize edilir.Burada amaç y değerine en yakın sonuçlar üretecek β katsayılarını bulmaktır.

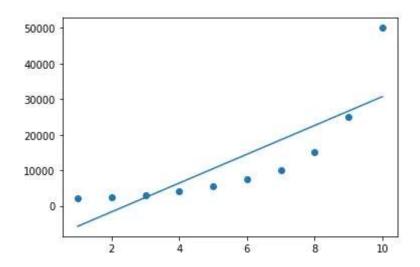
PYTHON Kodlaması:

from sklearn.linear_model import LinearRegression

Sklearn modülü içinden,LinearRegression methodu çağırıldı

LinearRegression methodu tanımlandı

.fit() öğren demektir.



2-Polinomal Regression)

Değişkenler arasındaki ilikişi doğrusal olmadığı durumlarda başvurulan analiz metodudur.

Amacımız gene β katsayılarını bulmaktır.

PYTHON Kodlaması:

from sklearn.preprocessing import PolynomialFeatures

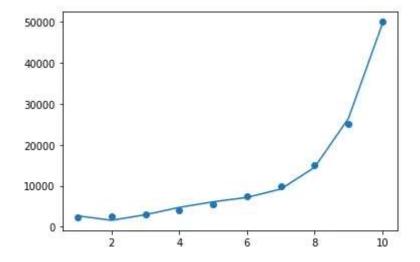
Sklearn modülü içinden, Polynomial Features methodu çağırıldı

Derecesi '2' olan polinom parametere olarak verildi

.fit_transform öğren ve veriyi değiştir anlamına gelir

Dönüştürülmüş veriyi kullanarak yeniden lineer Reg. tanımlıyoruz

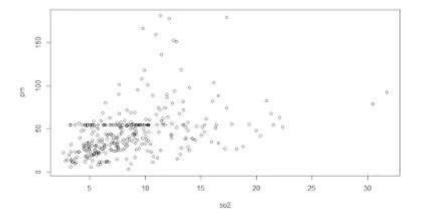
Yeni regresyonu dönüştürülmüş veri ile eğitiyoruz

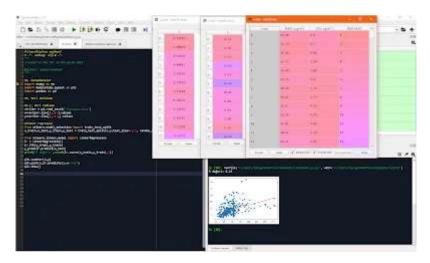


Örnek

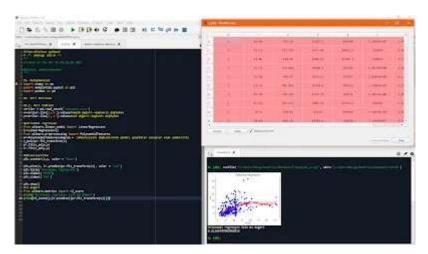
Görev: T.C. Çevre Ve Şehircilik Bakanlığı'nın sitesinden çekilen verilere göre regresyon analizi yapmak.

*Veri setini <u>burdan</u> indirebilirsiniz.





Lineer Model



Polynomal Model

Lineer Regresyon Python kodlarına ulaşmak için <u>tıklayınız.</u>

Data Science Machine Learning Regression



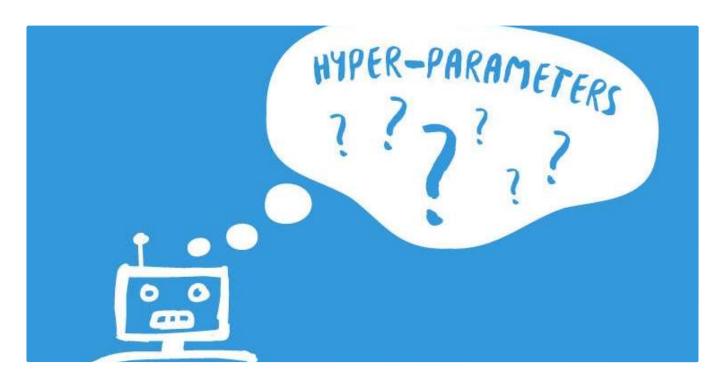


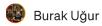
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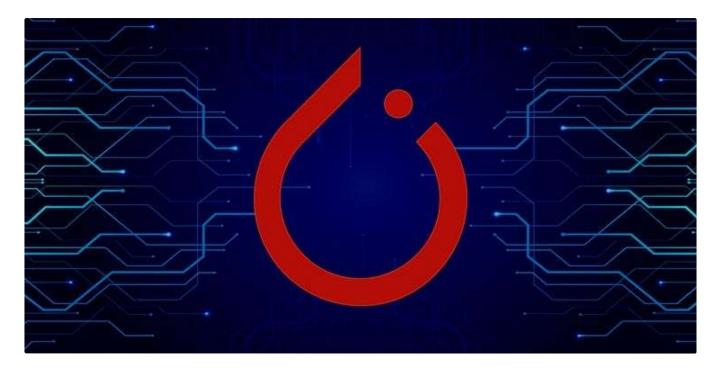
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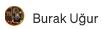












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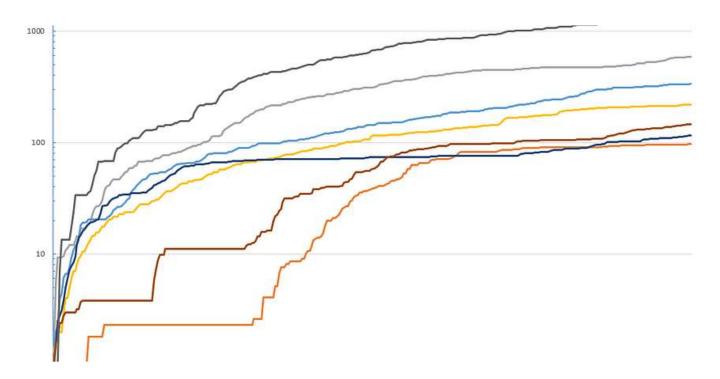


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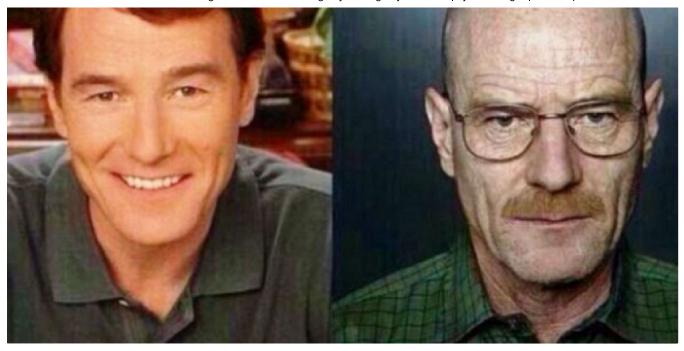
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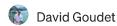
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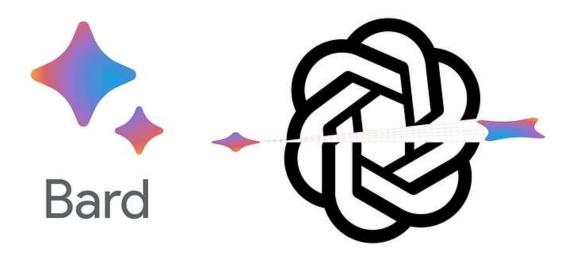
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