

BOSTON KONUT ANALİZ RAPORU

Gözlem Sayısı: 506 | Özellik Sayısı: 14

Hazırlayan: Veri Bilimi Ekibi

Oluşturulma Tarihi: 07/04/2025 23:05

İÇİNDEKİLER

1. Veri Özeti
2. Korelasyon Analizi
3. Dağılım Analizi
4. Görsel Analizler

1. VERİ ÖZETİ

Özellik: CRIM
count: 506.0
mean: -0.0
std: 1.0
min: -0.42
25%: -0.41
50%: -0.39
75%: 0.01
max: 9.89

Özellik: ZN
count: 506.0
mean: -0.0
std: 1.0
min: -0.49
25%: -0.49
50%: -0.49
75%: 0.05
max: 3.82

Özellik: INDUS
count: 506.0
mean: 0.0
std: 1.0
min: -1.56
25%: -0.87
50%: -0.21
75%: 1.02
max: 2.43

Özellik: CHAS
count: 506.0
mean: 0.0
std: 1.0
min: -0.27
25%: -0.27
50%: -0.27
75%: -0.27
max: 3.72

Özellik: NOX
count: 506.0
mean: -0.0
std: 1.0
min: -1.47
25%: -0.91
50%: -0.14
75%: 0.6
max: 2.73

Özellik: RM
count: 506.0
mean: -0.0
std: 1.0
min: -3.88
25%: -0.57
50%: -0.11
75%: 0.48
max: 3.56

Özellik: AGE
count: 506.0
mean: 0.0
std: 1.0
min: -2.36
25%: -0.83
50%: 0.3
75%: 0.9
max: 1.12

Özellik: DIS
count: 506.0
mean: -0.0
std: 1.0
min: -1.27
25%: -0.81
50%: -0.28
75%: 0.66
max: 3.96

Özellik: RAD
count: 506.0
mean: -0.0
std: 1.0
min: -0.98
25%: -0.64
50%: -0.52
75%: 1.66
max: 1.66

Özellik: TAX
count: 506.0
mean: 0.0
std: 1.0
min: -1.31
25%: -0.77
50%: -0.46
75%: 1.53
max: 1.8

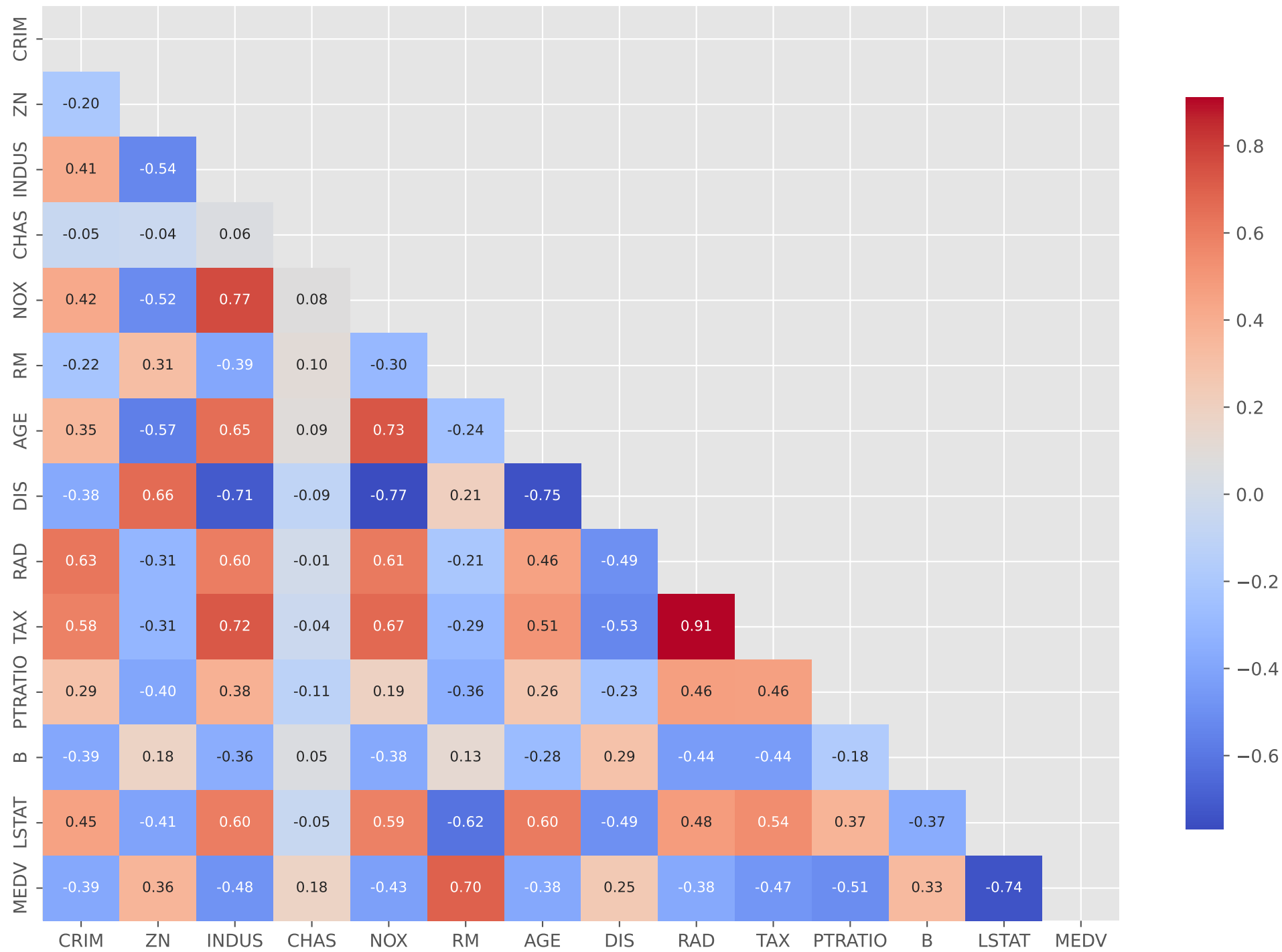
Özellik: PTRATIO
count: 506.0
mean: -0.0
std: 1.0
min: -2.71
25%: -0.49
50%: 0.27
75%: 0.81
max: 1.64

Özellik: B
count: 506.0
mean: -0.0
std: 1.0
min: -3.91
25%: 0.21
50%: 0.38
75%: 0.43
max: 0.44

Özellik: LSTAT
count: 506.0
mean: -0.0
std: 1.0
min: -1.53
25%: -0.78
50%: -0.19
75%: 0.59
max: 3.57

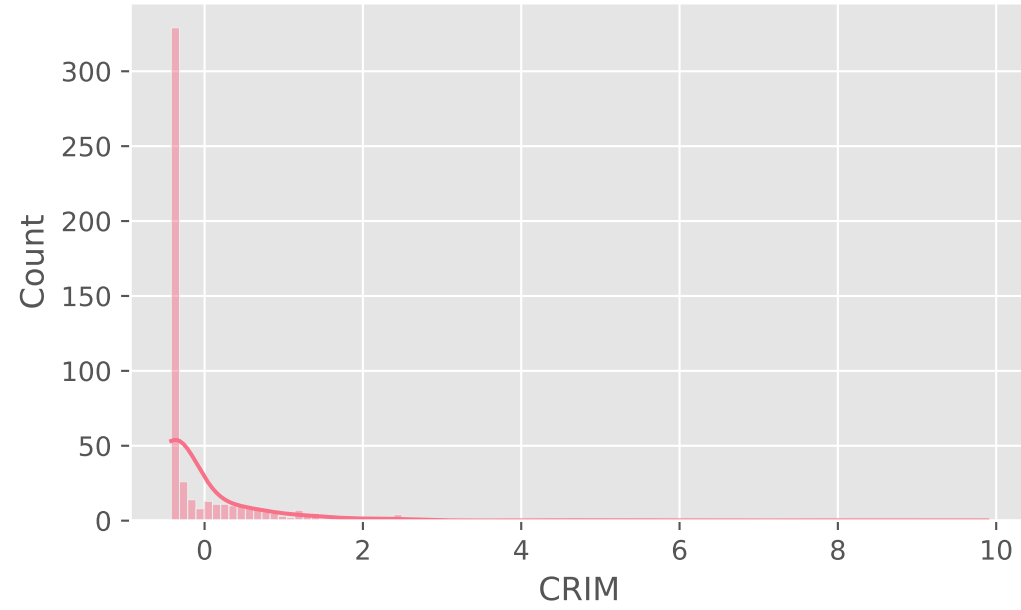
Özellik: MEDV
count: 506.0
mean: -0.0
std: 1.0
min: -1.91
25%: -0.6
50%: -0.15
75%: 0.27
max: 2.99

2. KORELASYON ANALİZİ

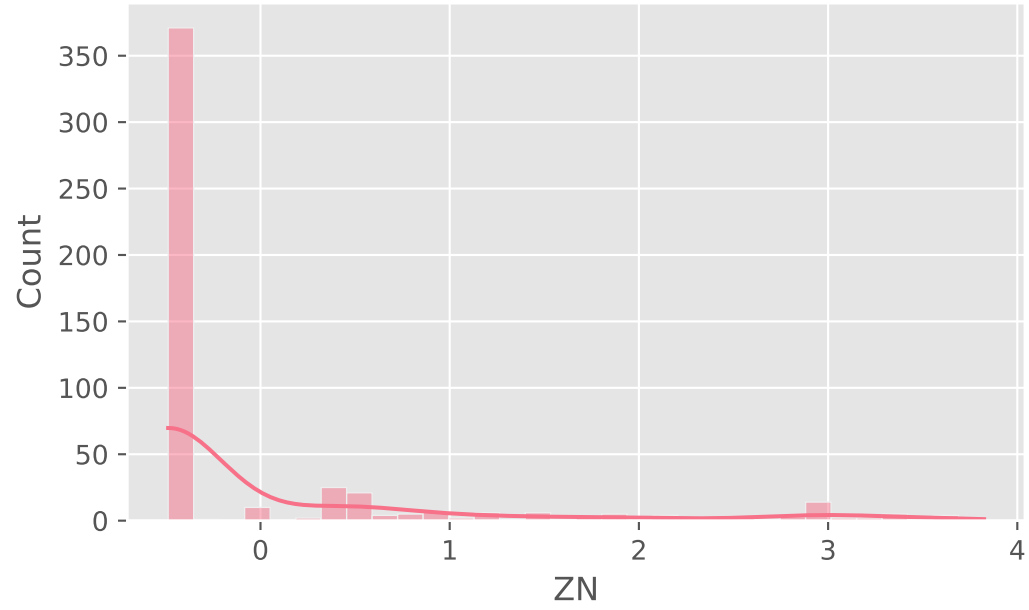


3. DAĞILIM ANALİZİ

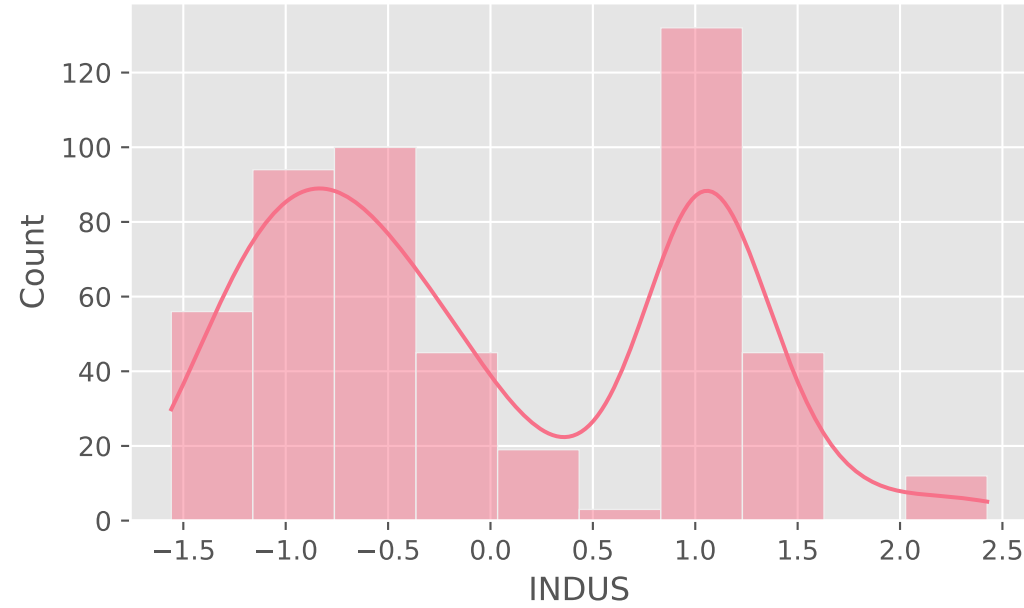
CRIM



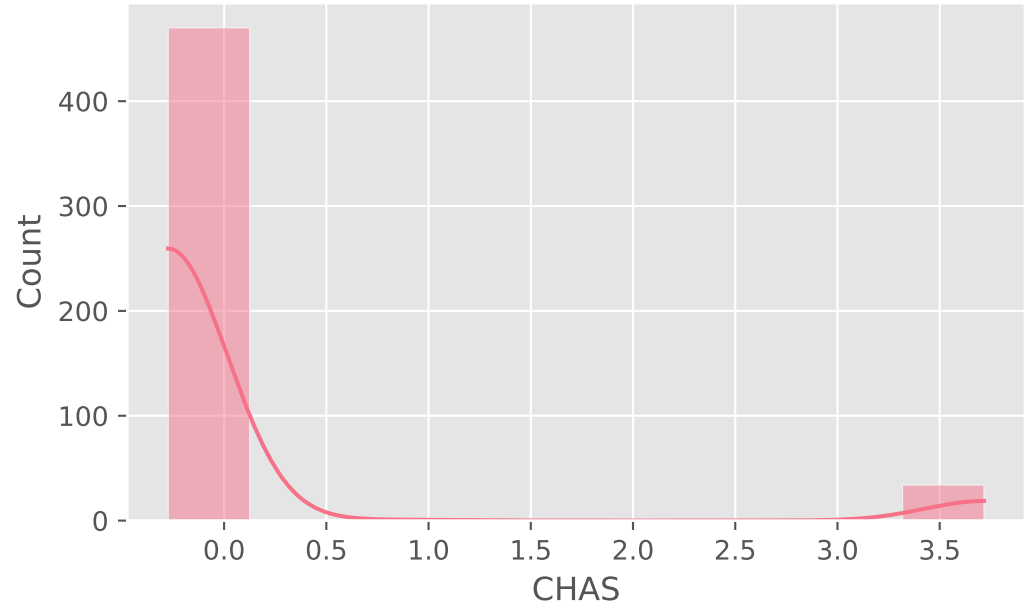
ZN



INDUS

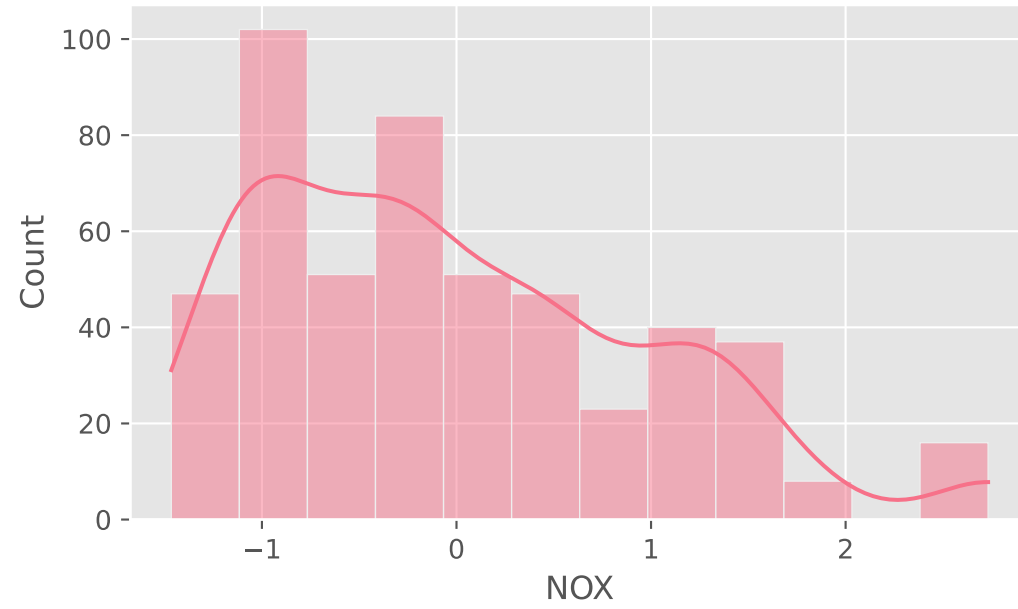


CHAS

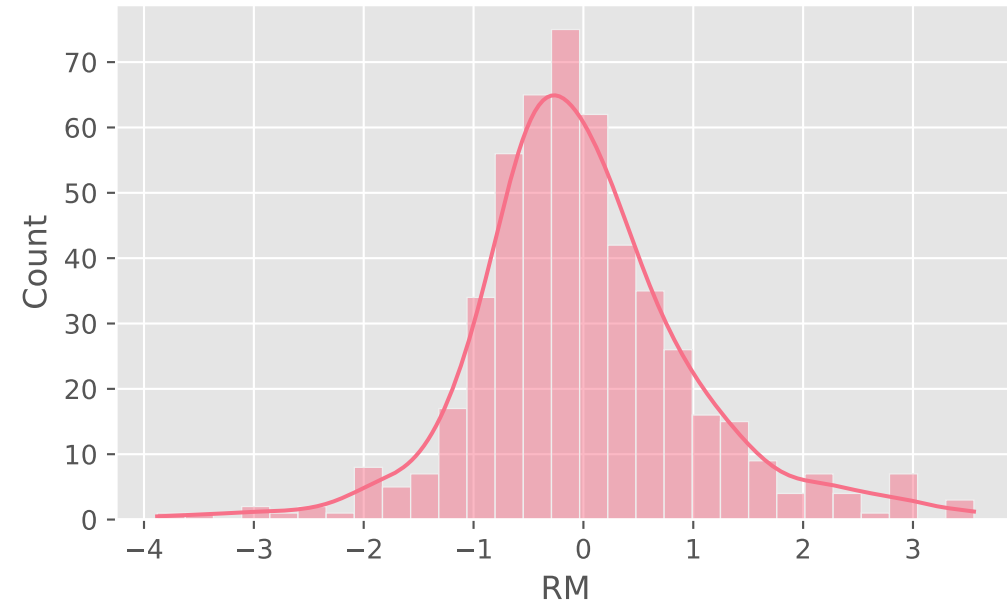


3. DAĞILIM ANALİZİ (Devam)

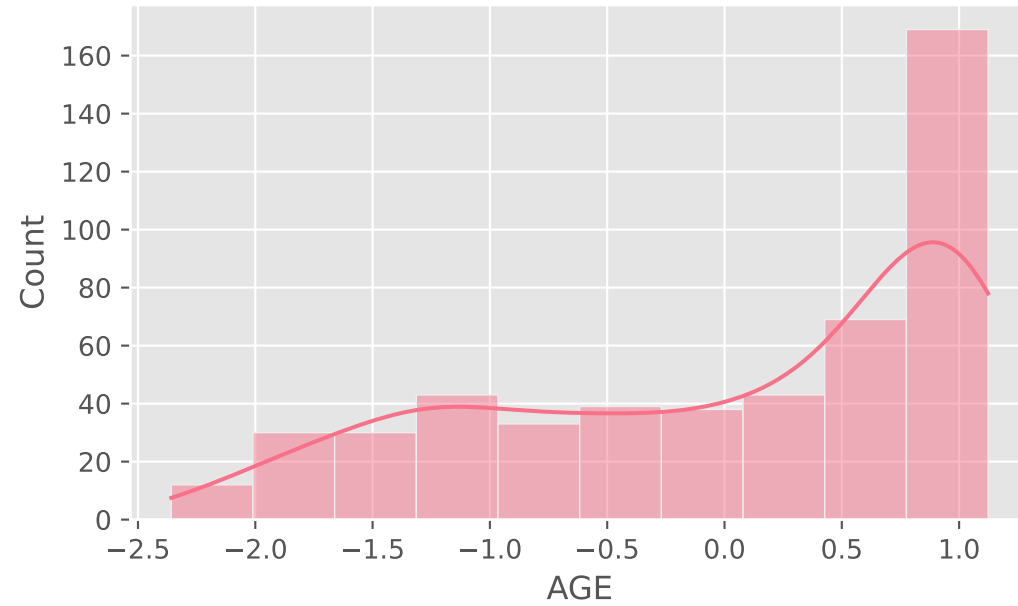
NOX



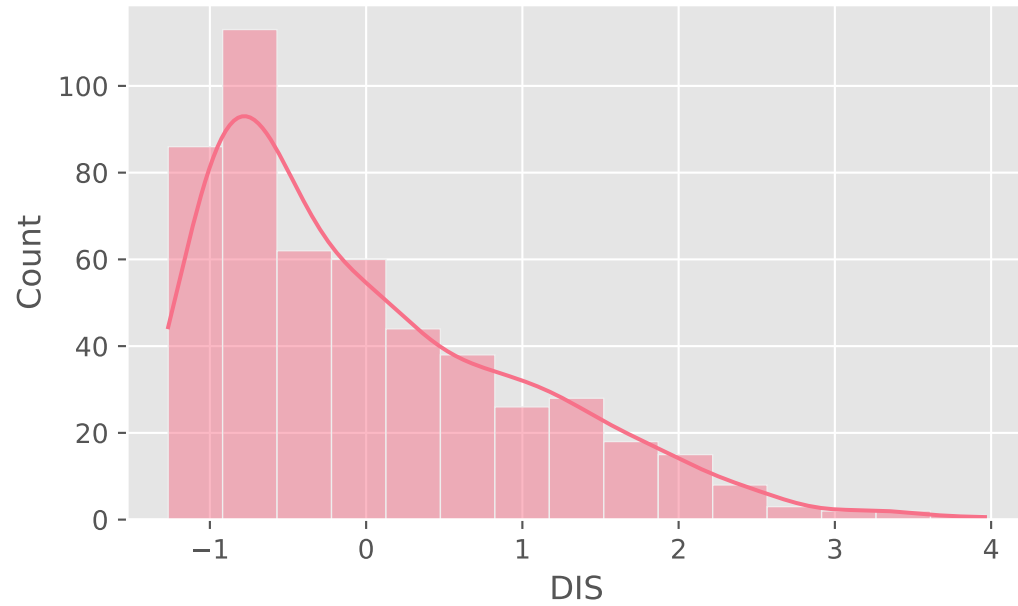
RM



AGE

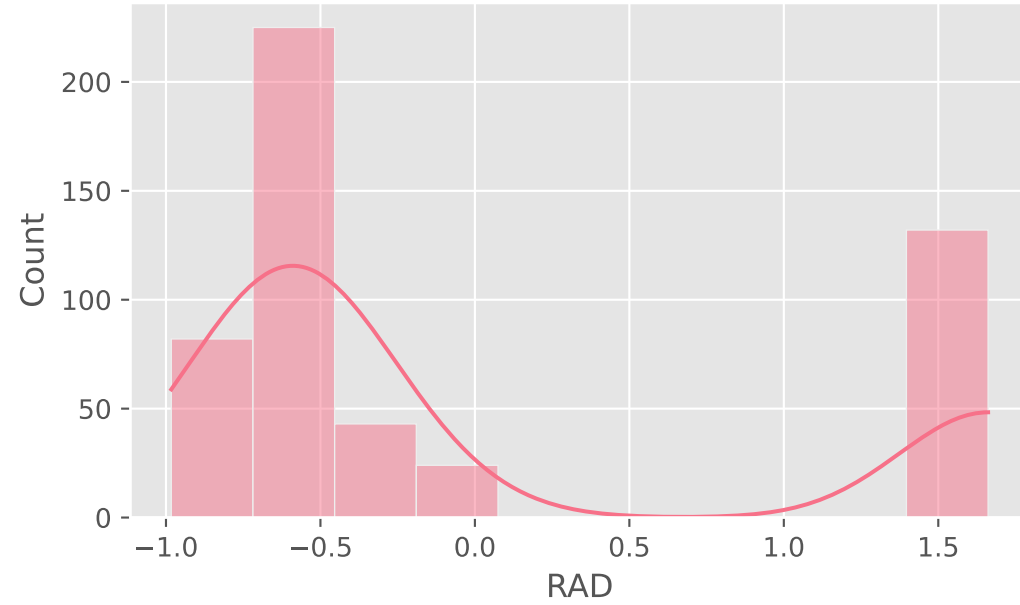


DIS



3. DAĞILIM ANALİZİ (Devam)

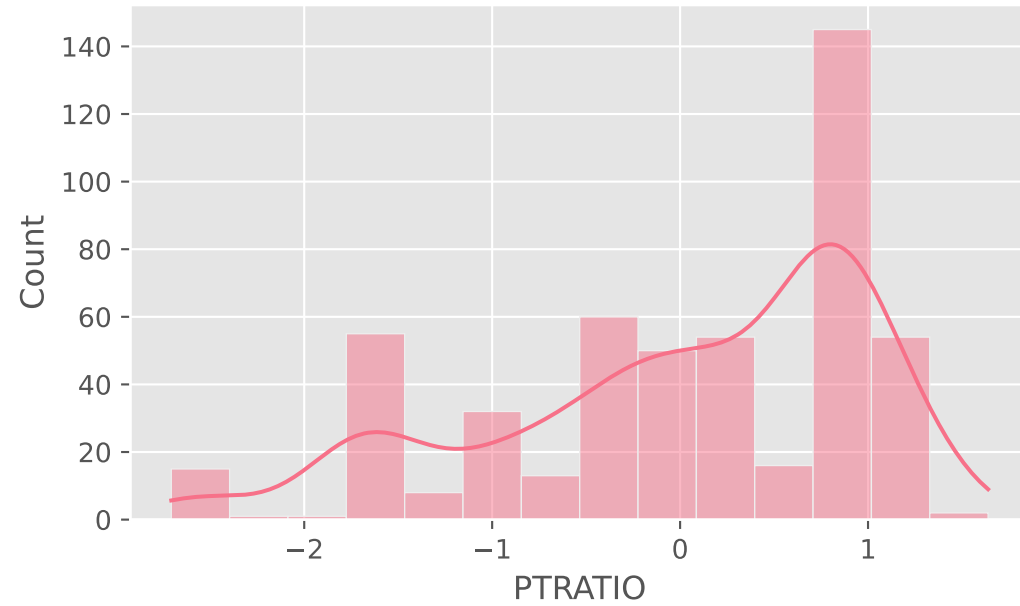
RAD



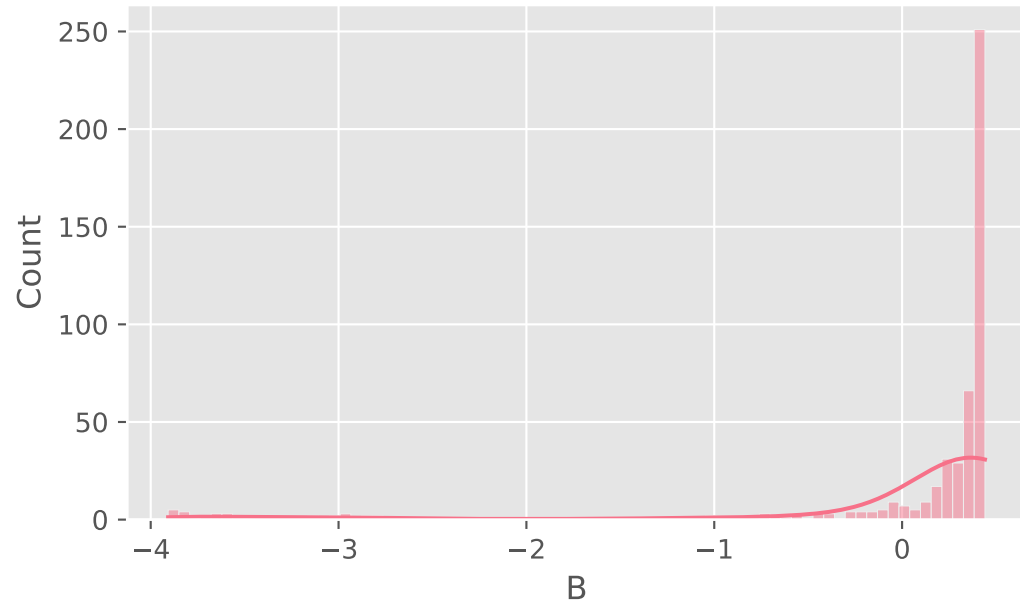
TAX



PTRATIO

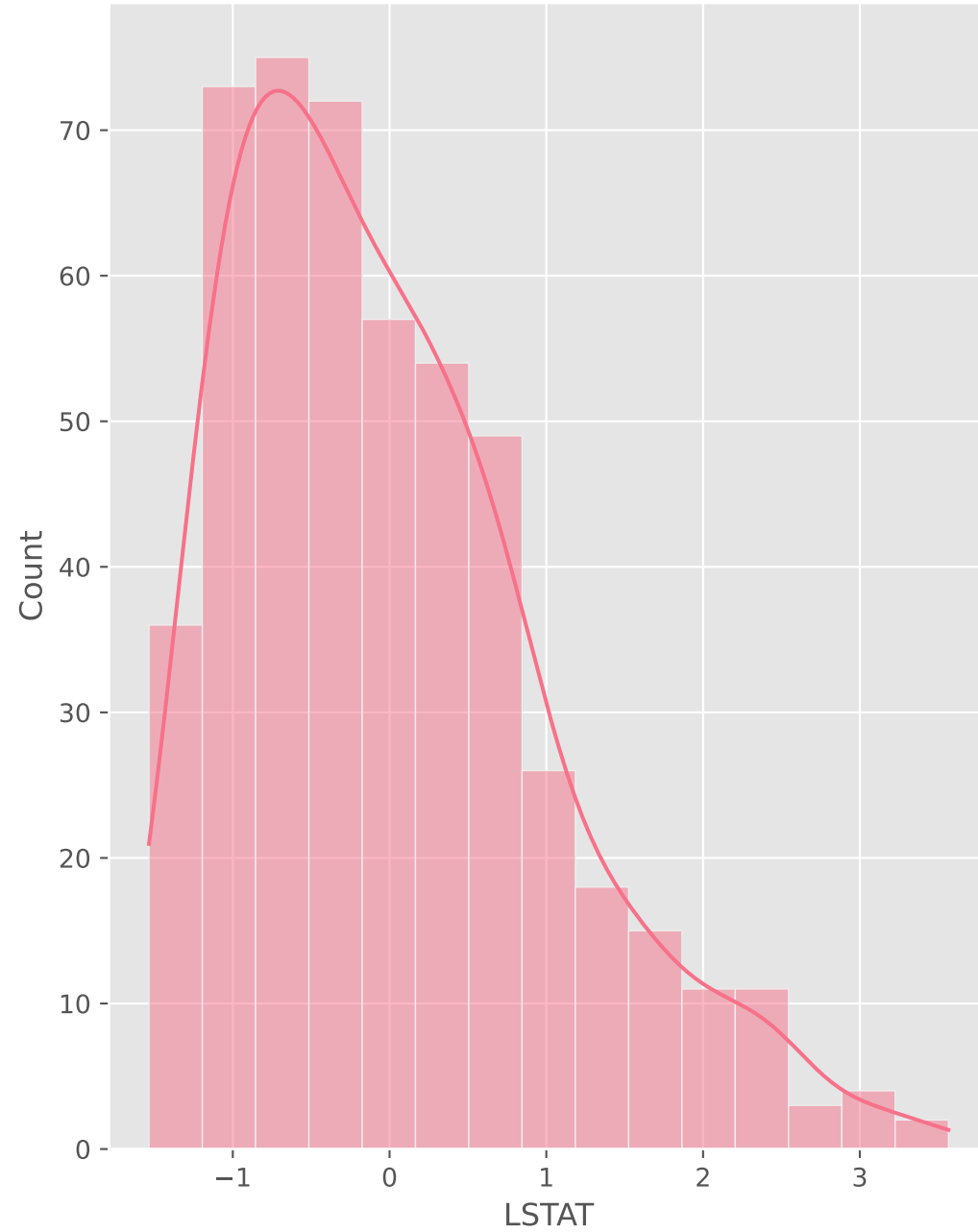


B

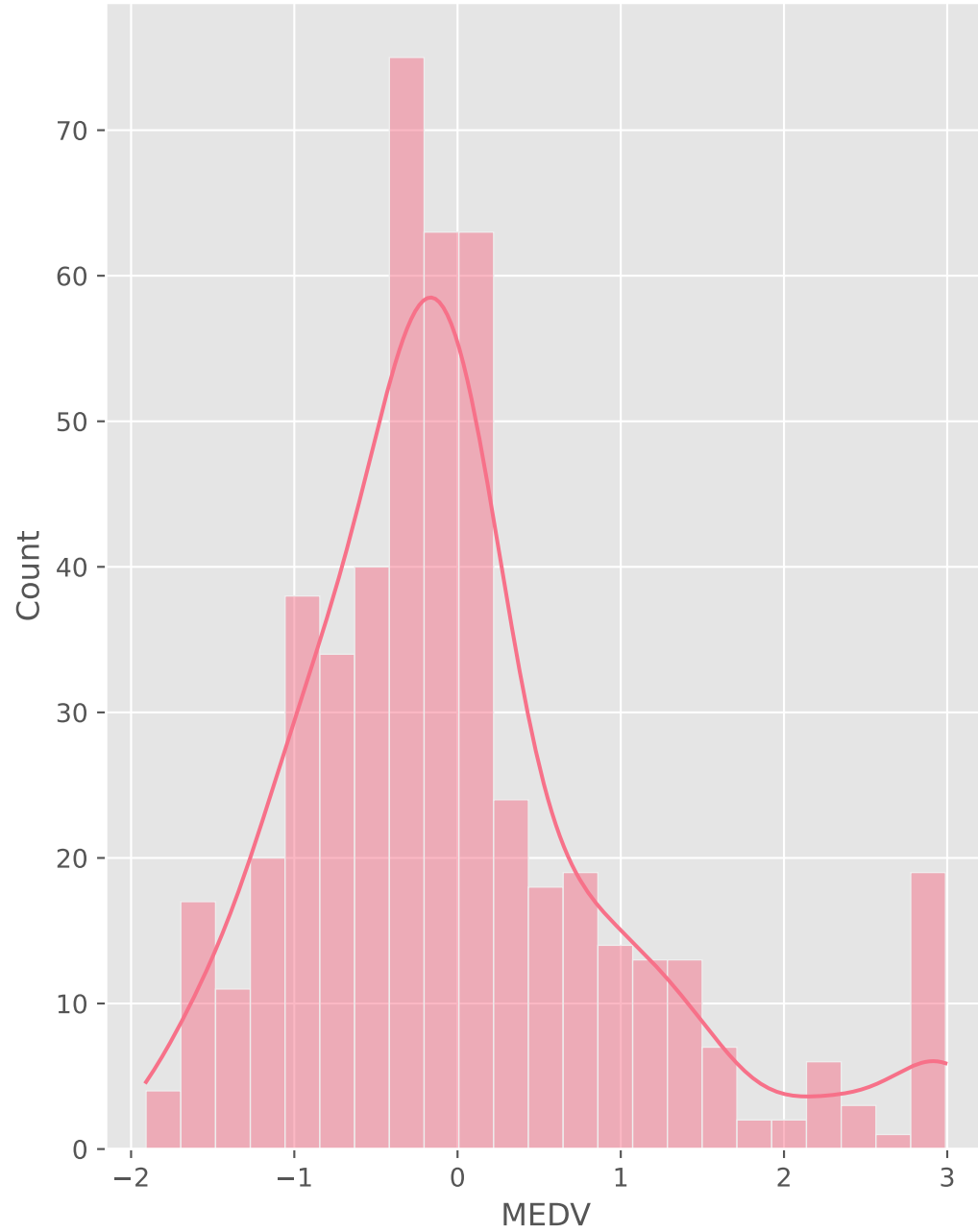


3. DAĞILIM ANALİZİ (Devam)

LSTAT



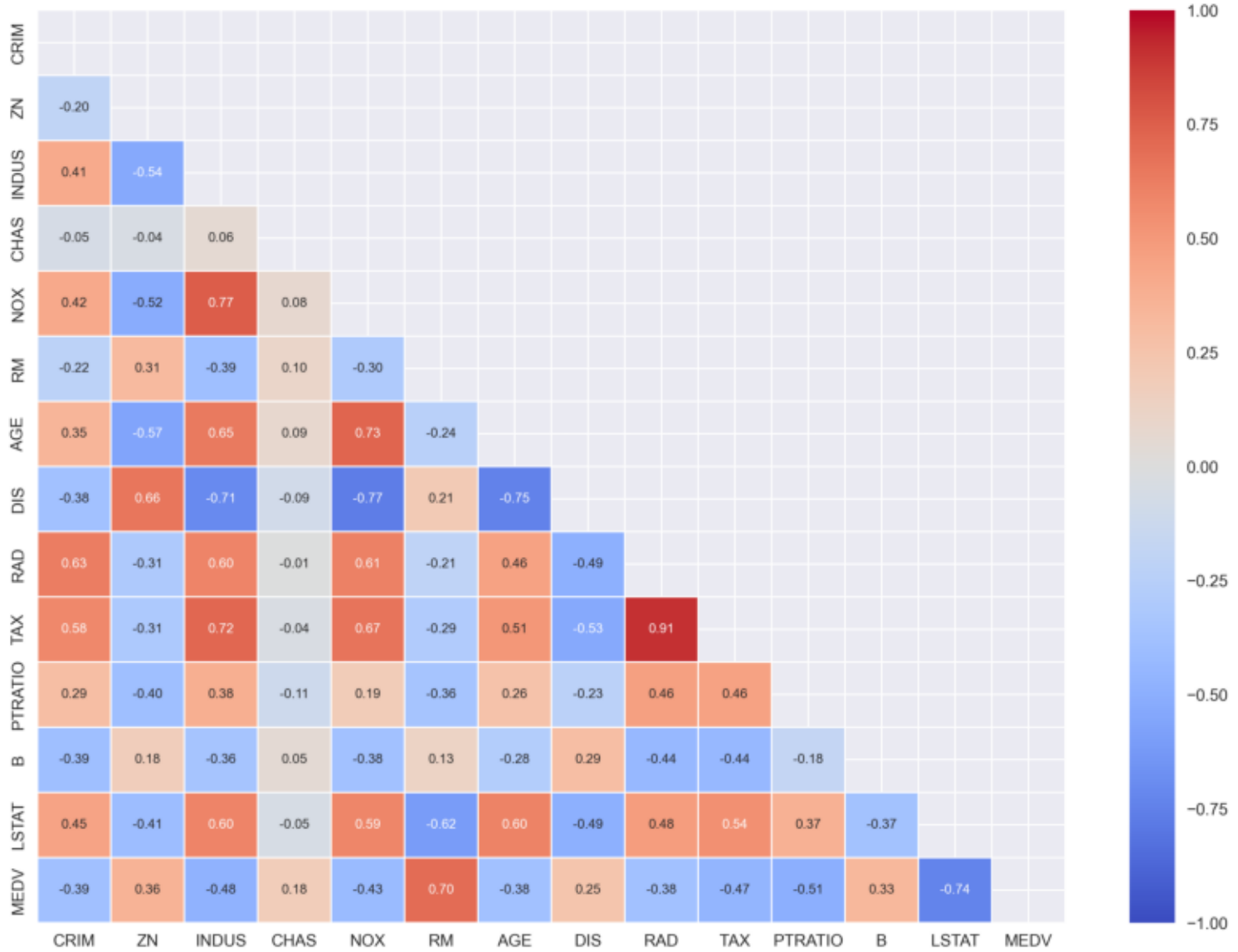
MEDV



4. GÖRSEL ANALİZLER

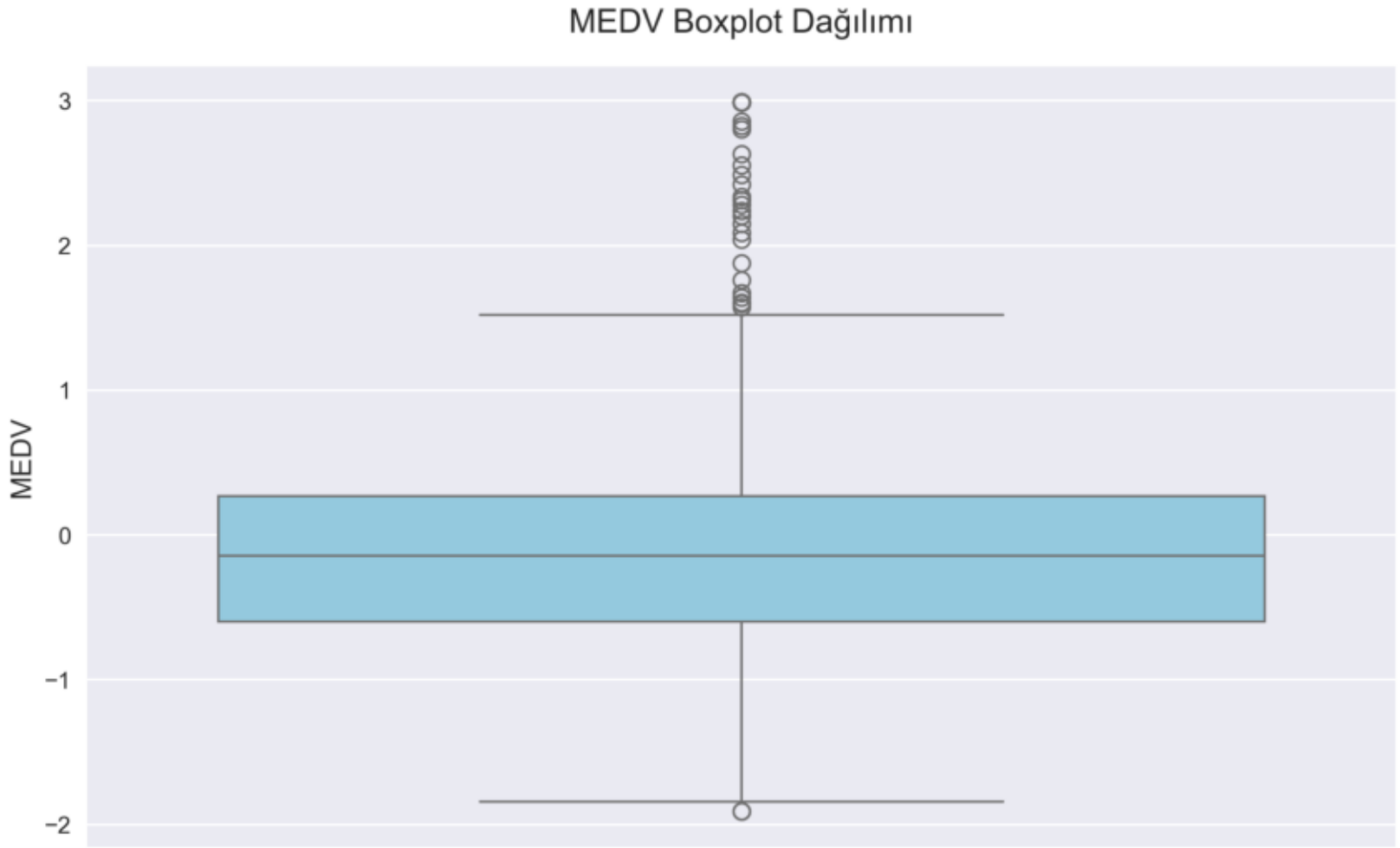
Görsel: final correlation

Özellik Korelasyon Matrisi
(Üst Üçgen Filtreli)



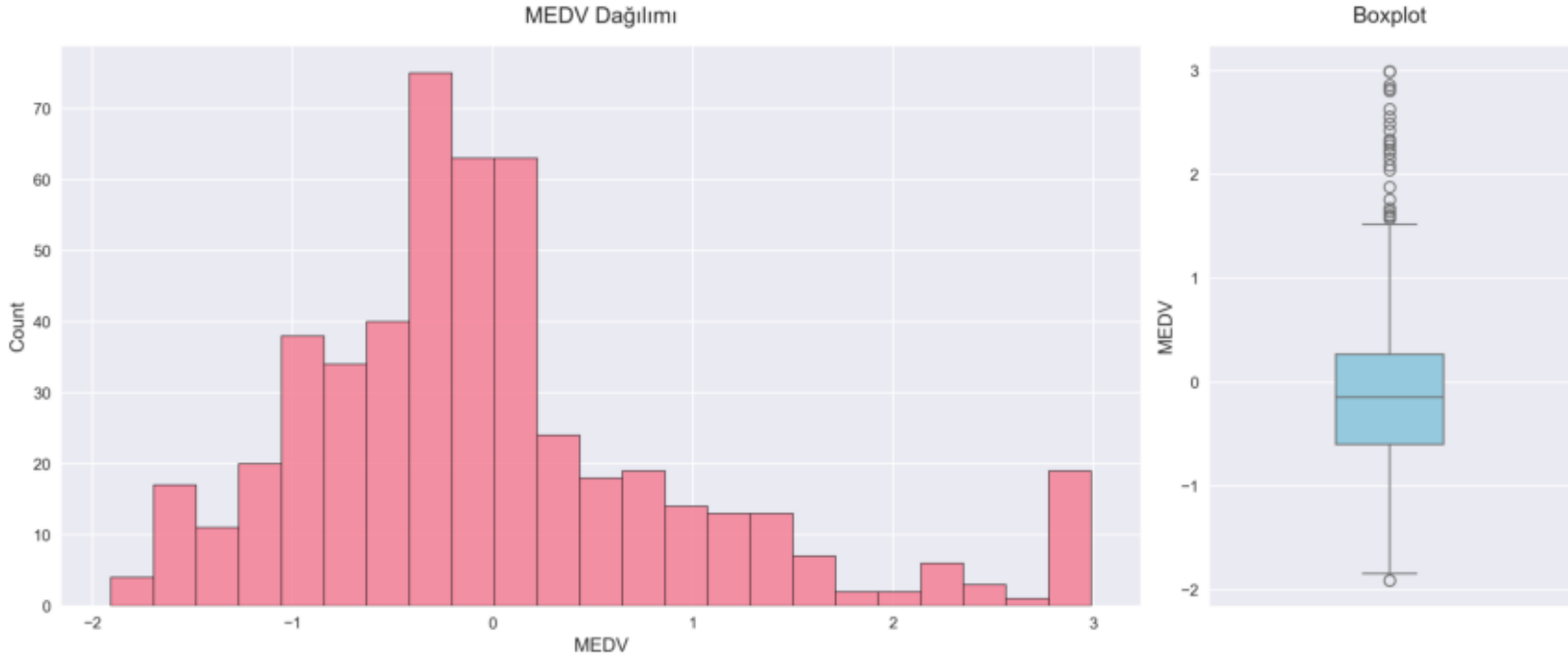
Özellikler arasındaki korelasyon ilişkisini gösteren ısı haritası. Konut fiyatlarıyla (MEDV) en güçlü ilişkiye sahip değişkenler gösterilmektedir.

Görsel: medv boxplot



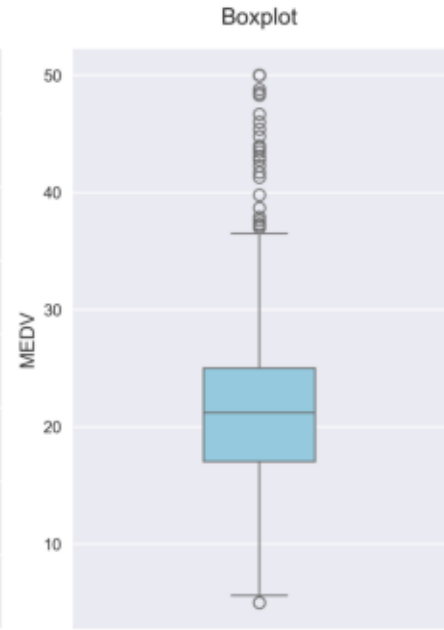
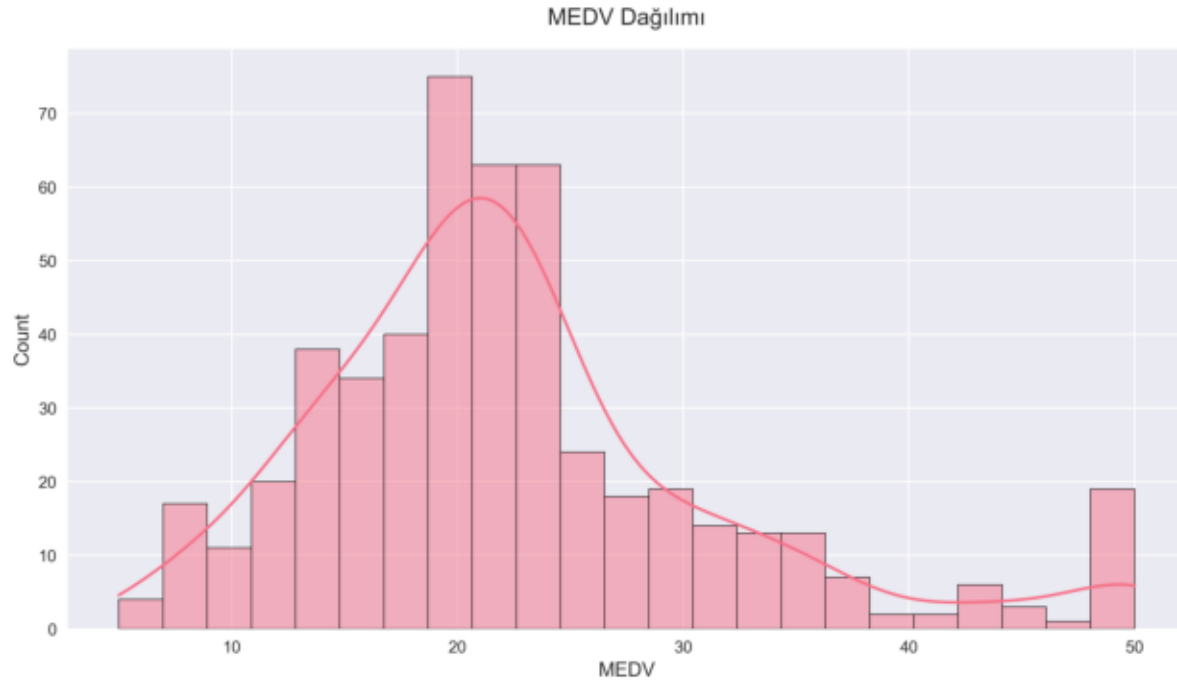
Konut değerlerinin kutu grafiği. Bu görsel, veri setindeki aykırı değerleri ve fiyat dağılımının merkeziliğini göstermektedir.

Görsel: medv boxplot dist



Konut değerlerinin hem kutu grafiği hem de dağılımı. Bu kombine grafik, fiyat dağılımının yapısını anlamayı kolaylaştırır.

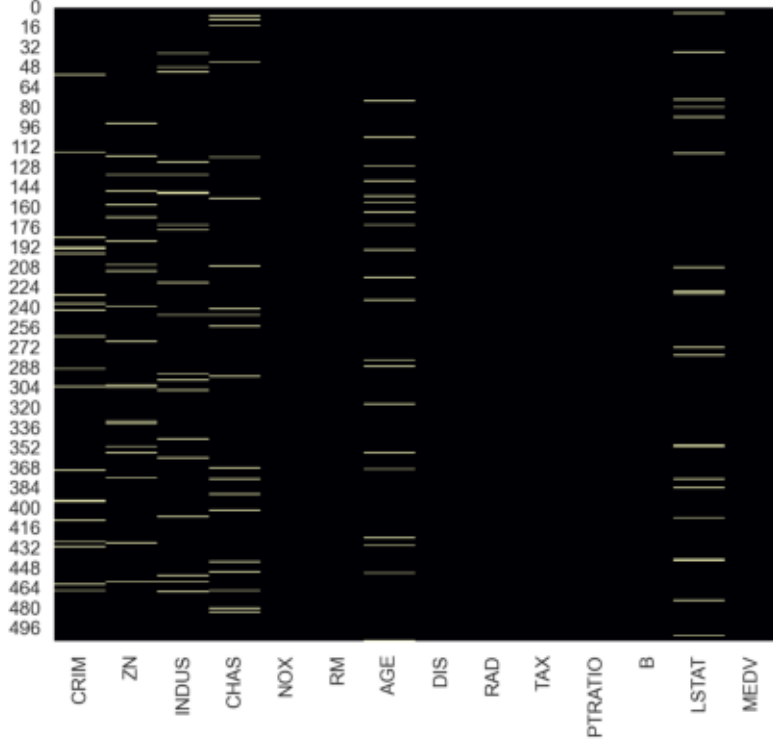
Görsel: medv distribution



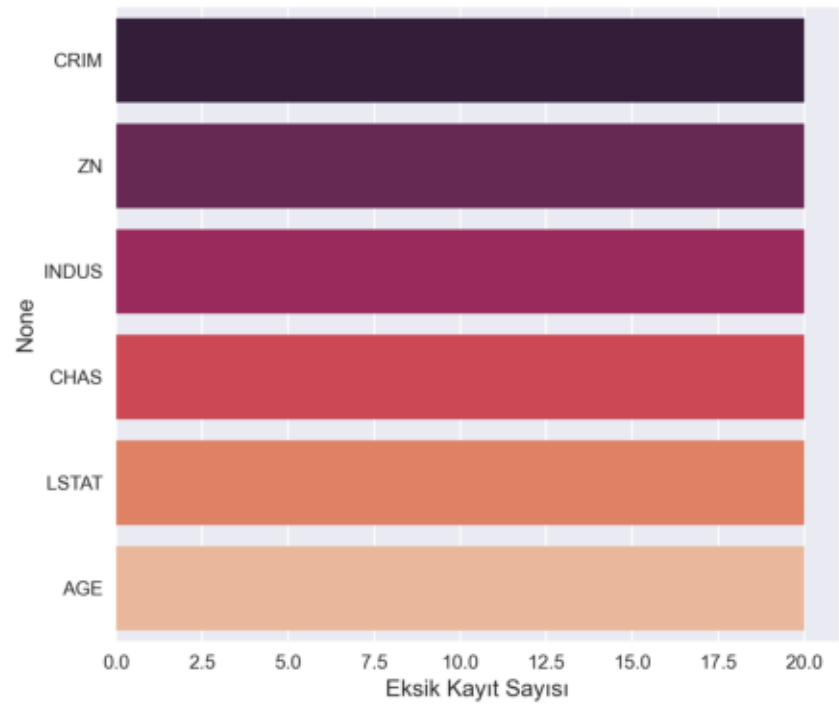
Konut değerlerinin dağılım grafiği. Histogramdan görüldüğü üzere, fiyat dağılımı sağa çarpıktır.

Görsel: missing data

Eksik Veri Heatmap



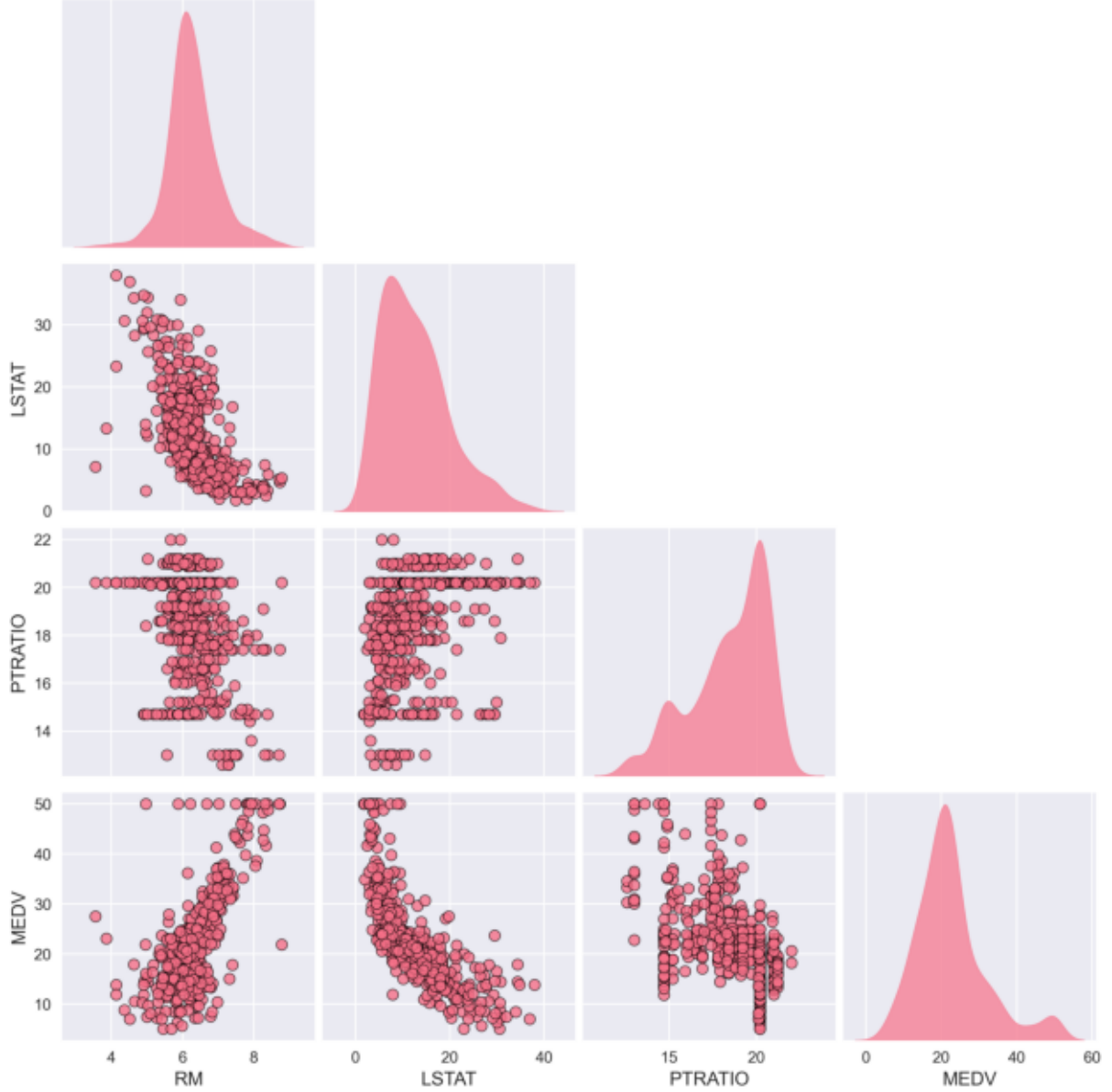
Eksik Veri Sayısı



Veri setindeki eksik değerlerin analizi. Bu görsel, veri temizleme sürecinde kullanılmıştır.

Görsel: pairplot

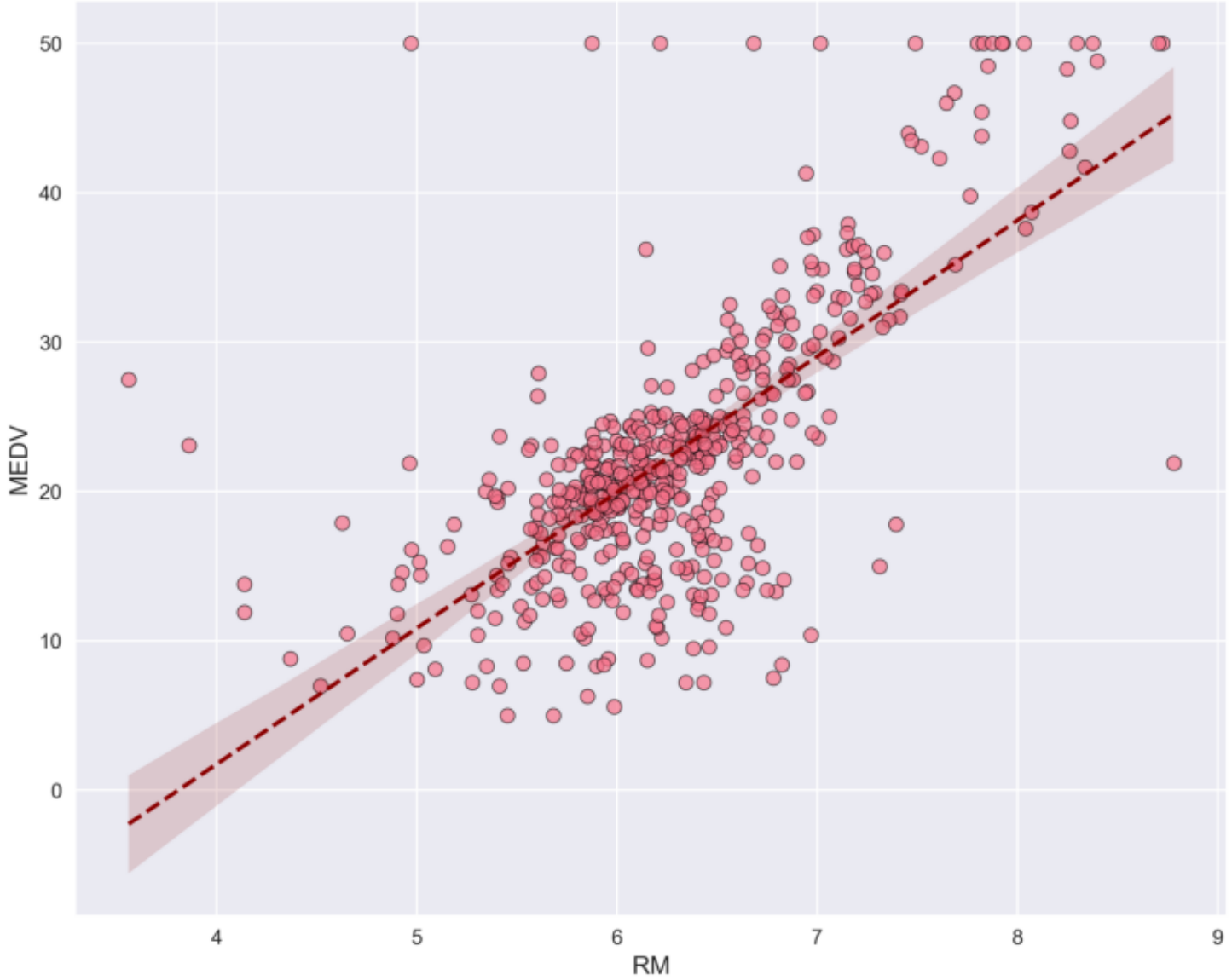
Özellikler Arası İlişkiler



Tüm sayısal değişkenlerin ikili ilişkilerini gösteren matris. Değişkenler arasındaki örüntüler ve ilişkiler görselleştirilmiştir.

Görsel: rm vs medv

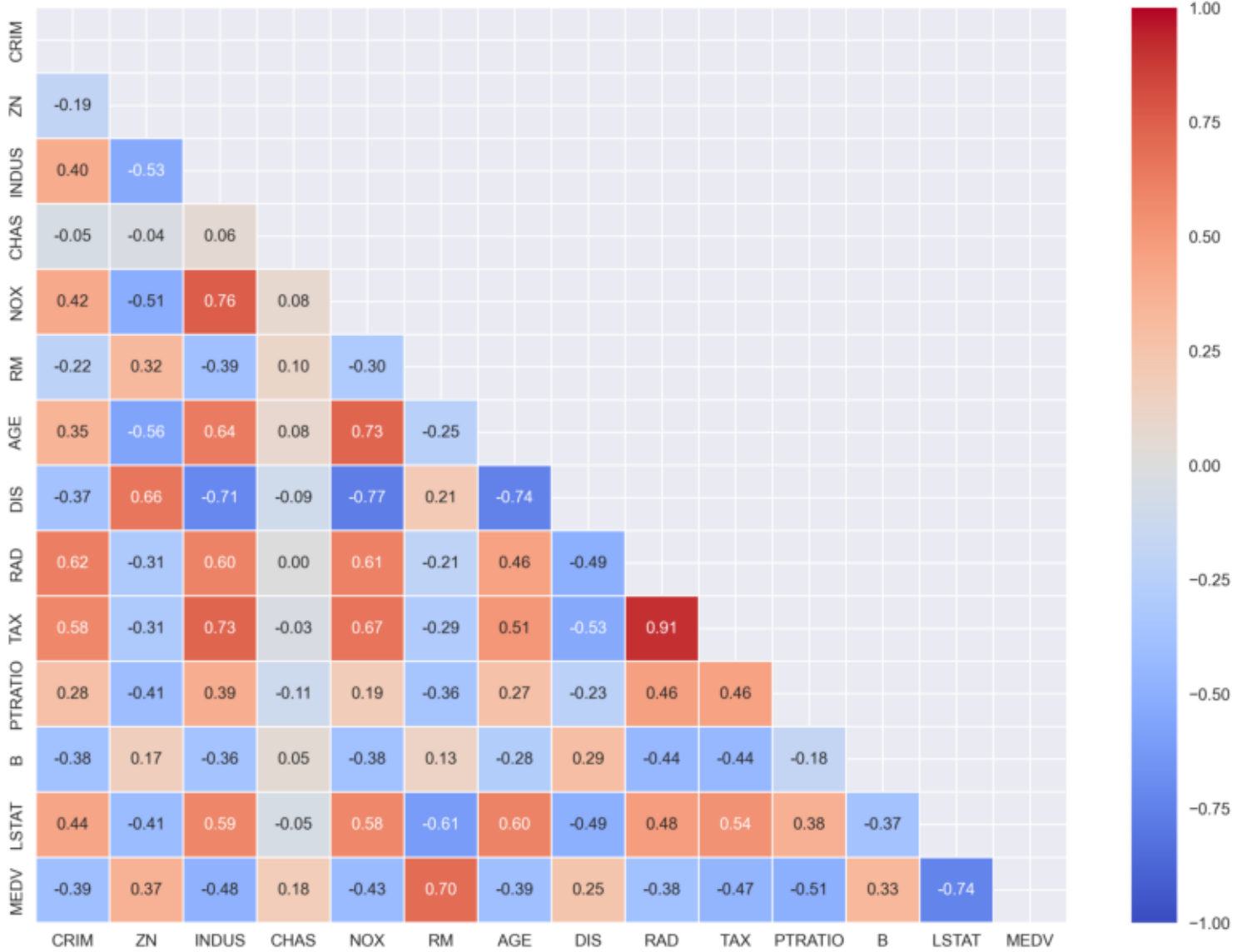
RM vs MEDV İlişkisi



Oda sayısı (RM) ile konut değeri (MEDV) arasındaki ilişki. Pozitif korelasyon açıkça görülmektedir.

Görsel: scorrelation matrix

Özellik Korelasyon Matrisi
(Üst Üçgen Filtreli)



Tüm değişkenler arasındaki korelasyon katsayılarını gösteren matris.