Uygulama -1

Kullanılan Veri Seti

(Car Dataset)

| ++ | | | | | | | | |
|--|---------------|-----------|-------|-----------------|-----|--|--|--|
| model year price transmission mileage fuelType tax mpg engineSize | | | | | | | | |
| ++ | | | | | | | | |
| | A1 2017 12500 | Manual | 15735 | Petrol 150 55.4 | 1.4 | | | |
| | A6 2016 16500 | Automatic | 36203 | Diesel 20 64.2 | 2.0 | | | |
| | A1 2016 11000 | Manual | 29946 | Petrol 30 55.4 | 1.4 | | | |
| | A4 2017 16800 | Automatic | 25952 | Diesel 145 67.3 | 2.0 | | | |
| | A3 2019 17300 | Manual | 1998 | Petrol 145 49.6 | 1.0 | | | |
| ++ | | | | | | | | |

Kullanılan Python Kütüphaneleri









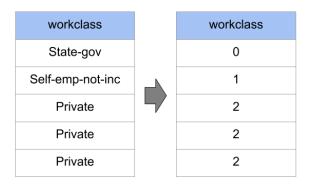
Data Encoding

- Label Encoding or Ordinal Encoding
- One hot Encoding
- Dummy Encoding
- Effect Encoding
- Binary Encoding
- BaseN Encoding
- Hash Encoding
- Target Encoding
-



One Hot Encoding

Ordinal Encoding



OneHot Encoding

| workclass | |
|------------------|---|
| State-gov | |
| Self-emp-not-inc | |
| Private | 5 |
| Private | |
| Private | |
| | + |

| | State-gov | Self-emp-not-inc | Private |
|--|-----------|------------------|---------|
| | 1 | 0 | 0 |
| | 0 | 1 | 0 |
| | 0 | 0 | 1 |
| | 0 | 0 | 1 |
| | 0 | 0 | 1 |

Data Encoding - Spark

- String Indexer
- One Hot Encoder
- Vector Assembler



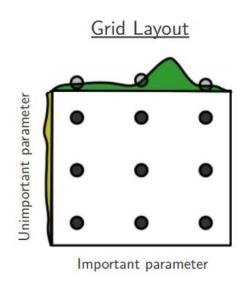


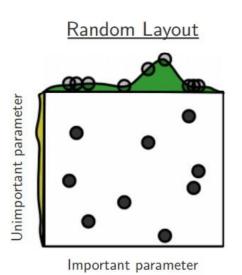
Hiperparametre Optimizasyonu

- Hiperperametre optimizasyonu nedir?
- Bu amaçla kullanılabilecek tekniklerden bazıları:
 - o Grid Search
 - Random Search
 - Bayesian optimization
 - Gradient-based optimization
 - Evolutionary optimization
 - Population-based optimization
 - Early stopping-based optimization
 - 0 ..

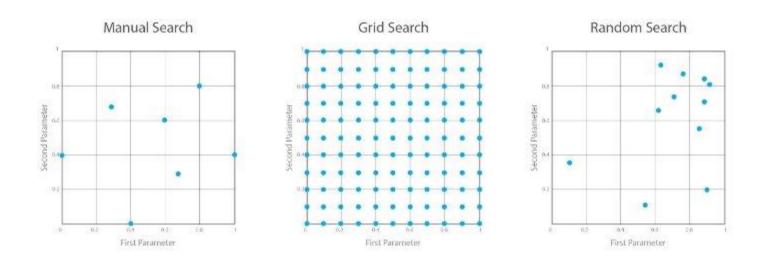


Hiper parametre Optimizasyonu (Grid Search)





Hiper parametre Optimizasyonu (Grid Search)



Hiper parametre Optimizasyonu (Grid Search)

