# TÜRKİYE CUMHURİYETİ YILDIZ TEKNİK ÜNİVERSİTESİ BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ



## YAPAY ZEKAYA GİRİŞ 1.ÖDEV

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## • Çözüm Anlatımı

Bu, çanta kelimeler yaklaşımını kullanan bir duygu analizi için basit bir Genetik Algoritma'nın kod uygulamasıdır.

#### Kod sınıfları

Kod üç sınıftan oluşur:

- **-DataPreProcessor:** girdi verilerini önceden işler ve kelime dağarcığı olarak kullanılmak üzere bir kelime kümesi oluşturur.
- **-Individual:** tek bir aday çözümü temsil eder (bir dizi pozitif ve negatif kelime) ve eğitim verilerindeki doğruluğuna göre fitness skoru hesaplar.
- **-Population:** aday çözümlerinin bir populasyonunu temsil eder ve genetik algoritmayı, seçim, çaprazlama ve mutasyonu içeren şekilde uygular.

#### Çalışma şekli

Burada uygulanan Genetik Algoritma şöyle çalışır:

- 1-Rastgele bireylerin bir populasyonu oluşturulur.
- 2-Her bir bireyin <u>fitness</u> değeri, pozitif ve negatif kelimelerinin nasıl duygu sınıflandırması yapabileceğine bağlı olarak hesaplanır.

- 3-Populasyon *fitness* değerine göre azalan sırayla sıralanır.
- 4-Yeni bir populasyon, en yüksek performans gösteren bireyleri (fitness değerine dayalı olarak) seçerek ve genetik operatörler (çaprazlama ve mutasyon) uygulayarak yeni bireyler oluşturularak oluşturulur.
- 5-İşlem belirli bir nesil sayısı için tekrarlanır.

#### • Bulgular

```
<u>pop_sizes</u> = [50,150,250]

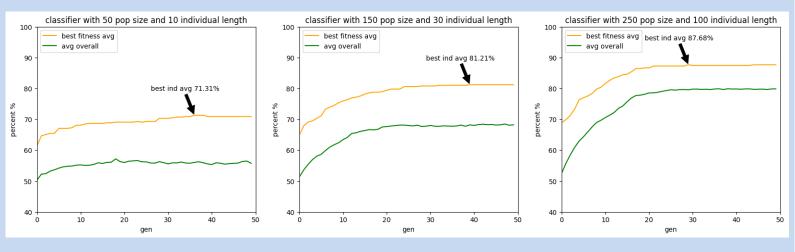
<u>ind_lens</u> = [10,30,100]
```

kodda *pop\_size* ve*ind\_len* değerleri için 3 tane farklı değer kullanıldı

## mutation\_rate:

mu\_prob adlı değişkene sabit değer verilmedi. fit ortalama değeri ile ters orantılı dinamik olarak hesaplanıyor

#### 1- Ortalama Grafikleri



Burda 5 farkli veri kümesini 3 farklı durumdaki izlediği performans ortalaması var.

Best *ind avg*: En iyi bireylerin *fit* değerleri ortalaması

## 2- Jenerasyonlar takip tablosu

Önemli Not: Burada sadece bir örnek resim var kalan tablolar zip dosyası içindeki "**jenerasyon\_tablolari.txt**" adlı dosya'da bulunuyor.

```
Dataset 3
pop created
classifier with 50 pop size and 10 individual length
gen 1 => Max fit: 0.595959595959596, avg: 0.4995959595960, mu prob: 0.300000000000000
gen 2 => Max fit: 0.646464646464647, avg: 0.5290909090909, mu prob: 0.350404040404040
    3 => Max fit: 0.64646464646467, avg: 0.5371717171717, mu prob: 0.32090909090909
     4 => Max fit: 0.646464646464647, avg: 0.5333333333333, mu prob: 0.312828282828283
     5 => Max fit: 0.686868686868687, avg: 0.5444444444444, mu prob: 0.3166666666666666
     6 => Max fit: 0.686868686868687, avg: 0.5434343434343, mu prob: 0.305555555555555
     7 => Max fit: 0.686868686868687, avg: 0.5454545454545, mu prob: 0.30656565656565657
     8 => Max fit: 0.686868686868687, avg: 0.5347474747474, mu prob: 0.304545454545455
     9 => Max fit: 0.686868686868687, avg: 0.5268686868687, mu prob: 0.315252525252526
gen 10 => Max fit: 0.707070707070707, avg: 0.539999999999, mu prob: 0.323131313131313
gen 11 => Max fit: 0.707070707070707, avg: 0.546666666666666, mu prob: 0.3100000000000000
gen 12 => Max fit: 0.707070707070707, avg: 0.5484848484848, mu prob: 0.303333333333334
gen 13 => Max fit: 0.707070707070707, avg: 0.5440404040404, mu prob: 0.30151515151515
    14 => Max fit: 0.707070707070707, avg: 0.5614141414141, mu prob: 0.305959595959596
gen 15 => Max fit: 0.707070707070707, avg: 0.5591919191919, mu prob: 0.28858585858585
gen 16 => Max fit: 0.707070707070707, avg: 0.5517171717171, mu prob: 0.290808080808081
gen 17 => Max fit: 0.707070707070707, avg: 0.5452525252525, mu prob: 0.298282828282829
   18 => Max fit: 0.707070707070707, avg: 0.536161616161616, mu prob: 0.304747474747475
    19 => Max fit: 0.707070707070707, avg: 0.5454545454545, mu prob: 0.313838383838384
gen 20 => Max fit: 0.707070707070707, avg: 0.53272727272727, mu prob: 0.3045454545454545
gen 21 => Max fit: 0.707070707070707, avg: 0.5339393939394, mu prob: 0.317272727272727
gen 22 => Max fit: 0.70707070707070, avg: 0.5387878787879, mu prob: 0.316060606060606
gen 23 => Max fit: 0.707070707070707, avg: 0.53515151515151, mu prob: 0.311212121212121
    24 => Max fit: 0.707070707070707, avg: 0.536161616161616, mu prob: 0.31484848484848485
gen 25 => Max fit: 0.707070707070707, avg: 0.5361616161616, mu prob: 0.31383838383838384
gen 26 => Max fit: 0.707070707070707, avg: 0.5375757575758, mu prob: 0.31383838383838384
gen 27 => Max fit: 0.70707070707070, avg: 0.5254545454545, mu prob: 0.312424242424242
    28 => Max fit: 0.707070707070707, avg: 0.5343434343434, mu prob: 0.32454545454545454
gen 29 => Max fit: 0.707070707070707, avg: 0.5371717171717, mu prob: 0.31565656565656565
gen 30 => Max fit: 0.707070707070707, avg: 0.540808080808080, mu prob: 0.312828282828283
gen 31 => Max fit: 0.70707070707070, avg: 0.526060606060606, mu prob: 0.309191919191920
gen 32 => Max fit: 0.70707070707070, avg: 0.5327272727273, mu prob: 0.323939393939394
    33 => Max fit: 0.707070707070707, avg: 0.5373737373737, mu prob: 0.317272727272727
    34 => Max fit: 0.707070707070707, avg: 0.546464646464646, mu prob: 0.312626262626263
gen 35 => Max fit: 0.707070707070707, avg: 0.5430303030303, mu prob: 0.303535353535354
gen 36 => Max fit: 0.707070707070707, avg: 0.53818181818181, mu prob: 0.30696969696969
   37 => Max fit: 0.707070707070707, avg: 0.5375757575757, mu prob: 0.3118181818182
    38 => Max fit: 0.707070707070707, avg: 0.55050505050505, mu prob: 0.3124242424243
gen 39 => Max fit: 0.707070707070707, avg: 0.5303030303030, mu prob: 0.299494949494950
gen 40 => Max fit: 0.707070707070707, avg: 0.537777777777, mu prob: 0.31969696969696
gen 41 => Max fit: 0.707070707070707, avg: 0.52767676767676, mu prob: 0.31222222222223
gen 42 => Max fit: 0.707070707070707, avg: 0.5450505050505, mu prob: 0.322323232323232
gen 43 => Max fit: 0.707070707070707, avg: 0.5272727272727, mu prob: 0.304949494949494
gen 44 => Max fit: 0.707070707070707, avg: 0.5341414141414, mu prob: 0.3227272727273
gen 45 => Max fit: 0.707070707070707, avg: 0.5353535353535, mu prob: 0.315858585858586
gen 46 => Max fit: 0.707070707070707, avg: 0.5254545454545, mu prob: 0.314646464646465
   47 => Max fit: 0.7070707070707070, avg: 0.5365656565656, mu prob: 0.324545454545454
gen 48 => Max fit: 0.707070707070707, avg: 0.54404040404040, mu prob: 0.3134343434343434
gen 49 => Max fit: 0.707070707070707, avg: 0.5379797979798, mu prob: 0.305959595959596
   50 => Max fit: 0.707070707070707, avg: 0.53171717171712, mu prob: 0.3120202020202020
```

#### • yorumlar:

#### Grafik ve Tablolardan gördük ki:

1- <u>pop\_size</u> (popülasyon büyüklügü) arttıkça aynı nesil'de çok sayı'da <u>child</u> üretildiği icin aynı nesilde <u>fit</u> değeri hızlı bir şekilde büyümesi'ne sebep olur.

fakat bu büyük sayıyı üretmek icin gerken süre çok fazla artar. 2- ind len (birey'in kelime listeleri uzunluğu) daha cok ortalama değeri etkiler yani <u>ind\_len</u> arttıkça ulasılabilecek maksimum ortalama genellikle artar bu da max *fit* değeri artması'na sebep olur. • En iyi 5 kelime setleri

NOT:Kelime setlerine zip dosyasının içindeki "**best\_word\_lists.txt**" adlı dosyadan ulaşabilirsiniz.

gertrude hugerabbitsharkvisibleman crap hoot arent population course yearsold suggests mustsee entity fail difficult superb canadiru chaper voice yearsold costume vessel depardicu subzero 70s manners floor ronald shom allen version john likable turnofthecentury lethal football concludes realm bleak lambert skernitt tenney worth safety coming buttheadthe respectable tuoday stealth marloue militude safety coming buttheadthe respectable tuoday stealth marloue militude prices tusists sinimum umatched charlies football stockler barrels principally enrichedthe wishes roddenberry festivals released landfill manipulator anne vooka nephew yeoman nnespaper spent english nude internet pleasantly comics fruitful south brow standup unfolds internet pleasantly comics fruitful south brow standup unfolds underful means pursued residents  **Sepolatative dayand gay festival sephen protagonist philosophy inside content earthall tooks explosive spent protagonist philosophy inside fraction entertainment vengeance sensationalistic characterisations shrink blocking competences from the bad overly heaper of sensationalistic characterisations form it tiem bad overly heaper years and the protagonist philosophy inside consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance or possess artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes eagle ungreaved artiful exception hilton contrivance consistent broes exception proved reach inside calls exception hilton contrivance or po	>DA	TASET 3<======						
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## • Video linki

youtube: <a href="https://youtu.be/dAwjUeDqlxg">https://youtu.be/dAwjUeDqlxg</a>