# YILDIZ TEKNİK ÜNİVERSİTESİ BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ



# YAPAY ZEKAYA GİRİŞ ÖDEVİ RAPORU

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**BİREY SAYISI: 20** 

HER BİREYİN ELEMAN SAYISI: 20

JENERASYON SAYISI: 20

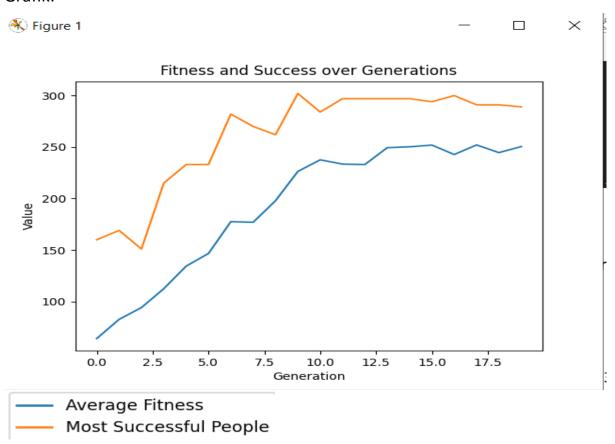
Positive Words	Negative Words
+	<del></del>
too	q
relative	phone
crisp	landline
good	motorola
autoanswer	extremely
one	since
wires	crackedi
fits	you
what	surefire
nyc	s
+	

Generation: Max fitness: 160 Generation: Max fitness: 169 Generation: Max fitness: 151 Generation: Max fitness: 215 Generation: 5 Max fitness: 233 Generation: Max fitness: 233 Generation: Max fitness: 282 Generation: Max fitness: 270 Generation: 9 Max fitness: 262 Generation: 10 Max fitness: 302 Generation: 11 Max fitness: 284 Generation: 12 Max fitness: 297 Generation: 13 Max fitness: 297 Generation: 14 Max fitness: 297 Generation: 297 Max fitness: Generation: 16 Max fitness: 294 Generation: 17 Max fitness: 300 Generation: 18 Max fitness: 291

Generation: 19
Max fitness: 291
Generation: 20
Max fitness: 289

yes ever wish disappointed great nicer good us autoanswer buy looks build phone means winner long from been	Positive Words	Negative Words
looks   build   phone   means   winner   long	wish great	disappointed nicer
flip quality	looks phone winner from	build     means     long     been

#### Grafik:



Görüldüğü gibi arada düşüşler de olsa genel olarak fitness'ta artış söz konusu

**BİREY SAYISI: 20** 

HER BİREYİN ELEMAN SAYISI: 40

JENERASYON SAYISI: 20

Birey sayısı ve jenerasyon sayısı sabit tutulup bireydeki eleman sayısı artırılıyor.

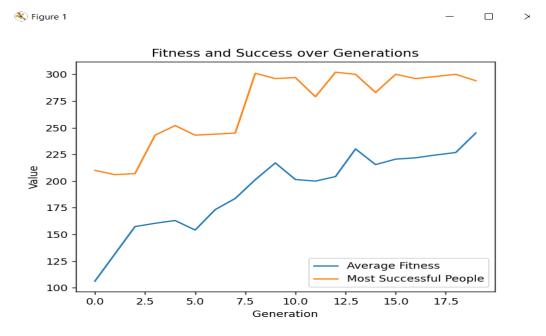
+	++
Positive Words	Negative Words
significantly	last
unit	bougth
helpful	sensor
seller	much
down	purchase
get	ear
book	firstperson
night	trying
works	buttons
glove	etc
plugged	ever
auto	both
under	decent
smell	answer
unacceptible	hearing
phone	eventually
slow	extended
offers	ever
life	metal
welldesigned	tmobile
+	++

Generation: 1 Max fitness: 210 Generation: Max fitness: Generation: Max fitness: 207 Generation: Max fitness: 243 Generation: Max fitness: 252 Generation: Max fitness: 243 Generation: Max fitness: 244 Generation: Max fitness: Generation: Max fitness: 301

Generation: 10 Max fitness: 296 Generation: 11 Max fitness: 297 Generation: Max fitness: 279 Generation: 13 Max fitness: 302 Generation: 14 Max fitness: 300 Generation: 15 Max fitness: 283 Generation: 16 Max fitness: 300 Generation: 17 Max fitness: 296 Generation: 18 Max fitness: 298 Generation: 19 Max fitness: 300 Generation: 20 Max fitness: 294

+	++
Positive Words	Negative Words
+	++
though	last
minutesmajor	bougth
also	unit
very	someone
thats	greater
ordered	stop
sunglasses	light
night	bluetoothmotorola
us	buttons
glove	etc
available	ever
specs	be
activesync	decent
transformed	exactly
distorted	browsing
phone	today
onethis	wrong
earpiece	look
websites	high
volume	accessing
+	++

## Grafik:



Bireylerin eleman sayılarını yükseltmek çok da büyük bir fark yaratmamış

**BİREY SAYISI: 20** 

HER BİREYİN ELEMAN SAYISI: 20

JENERASYON SAYISI: 30

Birey sayısını ve bireylerin eleman sayısını sabit tutup jenerasyon sayısını artırıyoruz

e Words
+
ids   or
zr
ak one
sible   as
est ment
eat

Generation: 1 Max fitness: 157 Generation: 2 Max fitness: 169 Generation: 3 Max fitness: 218 Generation: 4 Max fitness: 209 Generation: 5 Max fitness: 190 Generation: 6 Max fitness: 181 Generation: 7 Max fitness: 214 Generation: 8 Max fitness: 210 Generation: 9 Max fitness: 210 Generation: 10 Max fitness: 214 Generation: 11 Max fitness: 233 Generation: 12 Max fitness: 210 Generation: 13 Max fitness: 209 Generation: 14 Max fitness: 208 Generation: 15 Max fitness: 208 Generation: 15

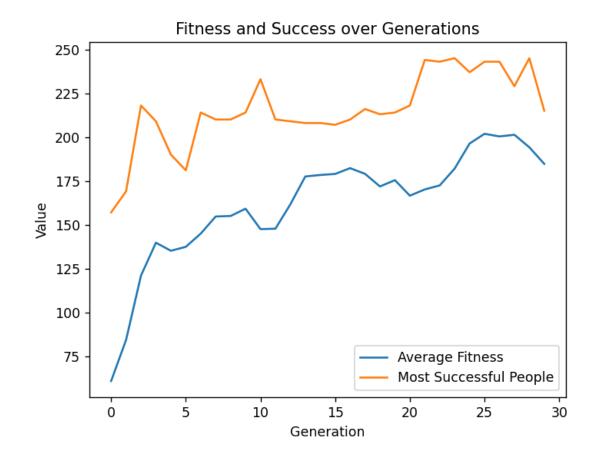
Max fitness: 208 Generation: 16 Max fitness: 207 Generation: 17 Max fitness: 210 Generation: 18 Max fitness: 216 Generation: 19 Max fitness: 213 Generation: 20 Max fitness: 214 Generation: 21 Max fitness: 218 Generation: 22 Max fitness: 244 Generation: 23 Max fitness: 243 Generation: 24 Max fitness: 245 Generation: 25 Max fitness: 237 Generation: 26 Max fitness: 243 Generation: 27 Max fitness: 243 Generation: 28 Max fitness: 229 Generation: 29 Max fitness: 245 Generation: 30 Max fitness: 215

## Son popülasyonun en iyisi:

Positive Words	Negative Words
shape   take   able   tips	recieve v problems break
customer charge expectations easy sanyo hs	phone light this cool communication case

## Grafik:





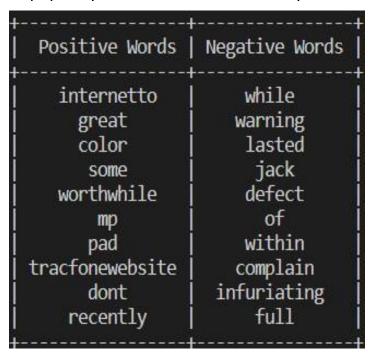
Jenerasyon arttıkça bireyler birbirine benzediği için yükseliş yavaşlıyor

**BİREY SAYISI: 20** 

HER BİREYİN ELEMAN SAYISI: 20

JENERASYON SAYISI: 30

Bu sefer farklı bir şey yapıp evrim esnasında parent seçerken fitness değerlerine göre değil de fitness değerlerinin karesine göre seçelim. Bu durum fitness'ı yüksek olanların çok daha yüksek bir oranda seçilip yeni jenerasyona katılmalarını sağlayacak.

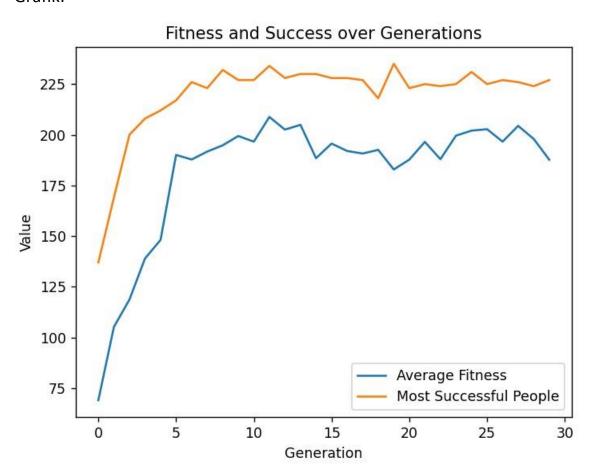


Generation: 1 Max fitness: 137 Generation: 2 Max fitness: 169 Generation: 3 Max fitness: 200 Generation: 4 Max fitness: 208 Generation: 5 Max fitness: 212 Generation: 6 Max fitness: 217 Generation: 7 Max fitness: 226 Generation: 8 Max fitness: 223 Generation: 9 Max fitness: 232 Generation: 10 Max fitness: 227 Generation: 11 Max fitness: 227 Generation: 12 Max fitness: 234 Generation: 13 Max fitness: 228 Generation: 14 Max fitness: 230 Generation: 15 Max fitness: 230 Generation: 16 Max fitness: 228 Generation: 17 Max fitness: 228 Generation: 18 Max fitness: 227 Generation: 19 Max fitness: 218 Generation: 20 Max fitness: 235 Generation: 21 Max fitness: 223 Generation: 22 Max fitness: 225

Generation: 24
Max fitness: 225
Generation: 25
Max fitness: 231
Generation: 26
Max fitness: 225
Generation: 27
Max fitness: 227
Generation: 28
Max fitness: 226
Generation: 29
Max fitness: 224
Generation: 30
Max fitness: 227

Positive Words	Negative Words
monkeys	phonebattery
great	allowing
color	searched
phone	handy
worthwhile	right
lap	however
pad	course
drop	intermittently
disappointment	ever
lg	understand

## Grafik:



Görüldüğü gibi en başta çok hızlı yükseliş sağlasa da yeni jenerasyonlarda bireylerin birbirlerine çok benzemesi sebebiyle yükseliş çok yavaşlıyor ve son jenerasyonda bireyler birbirine çok benziyor.

**BİREY SAYISI: 40** 

HER BİREYİN ELEMAN SAYISI: 20

JENERASYON SAYISI: 20

Fitness'ı eski haline getirip eleman sayısı ve jenerasyon sayısını aynı tutup birey sayısını arttıralım.

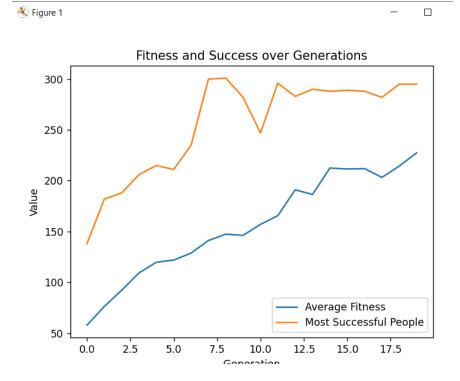
prevents   fall   device   nightmare   manufacturer   slipping   bluetooth   voice   be   normally   work   ones   much   onlyi   superfast   but   setup   who   use   poor	Positive Words	Negative Words
	device manufacturer bluetooth be work much superfast setup	nightmare slipping voice normally ones onlyi but who

Generation: Max fitness: 138 Generation: Max fitness: 182 Generation: 3 Max fitness: 188 Generation: 4 Max fitness: 206 Generation: 5 Max fitness: 215 Generation: 6 Max fitness: 211 Generation: Max fitness: Generation: 8 Max fitness: Generation: 9 Max fitness: 301 Generation: Max fitness: 282 Generation: 11 Max fitness: 247 Generation: 12 Max fitness: 296

Generation: 13 283 Max fitness: Generation: 14 Max fitness: 290 Generation: 15 Max fitness: 288 Generation: 16 Max fitness: 289 Generation: 17 Max fitness: 288 Generation: 18 Max fitness: 282 Generation: 19 Max fitness: 295 Generation: 20 Max fitness: 295

+   Positive Words +	++   Negative Words   +
droid	colored
very	loads
for	comfortably
bluetooth	startac
hands	average
fantastic	never
much	messes
good	crawl
kindle	this
can	two
<del>+</del>	++

#### Grafik:



Birey sayısının artması daha düzgün bir şekilde fitness değerinin düzenli bir şekilde artışını sağlıyor

**BİREY SAYISI: 50** 

HER BİREYİN ELEMAN SAYISI: 50

JENERASYON SAYISI: 20

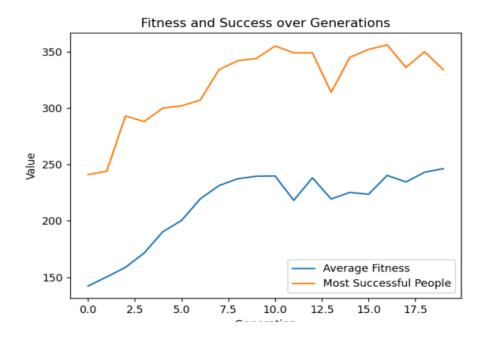
Birey sayısını ve eleman sayısını iyice artırıp sonucu gözlemliyoruz.

+   Positive Words	   Negative Words
mail	puff
wirefly	forever
j buy	could
this	anything
buttons	wires
relative	beautiful
wild	fulfills
contract	audio
great	money
two	rocketed
that	might
working	unreliable
bars	aspect
feature	messes
looses	renders
during	indoors
unknown	override
its	both
motorolas	love
slide	design
smell	bitpim
lightly	file
pay	clip
at	palmtopcameracellphone
os	recommended
+	++

Generation:	1
Max fitness:	241
Generation:	2
Max fitness:	244
Generation:	3
Max fitness:	293
Generation:	4
Max fitness:	288
Generation:	5
Max fitness:	300
Generation:	6
Max fitness:	302
Generation:	7
Max fitness:	307
Generation:	8
Max fitness:	334
Generation:	9
Max fitness:	342
Generation:	10
Max fitness:	344
Generation:	11
Max fitness:	355
Generation:	12
Max fitness:	349
Generation:	13
Max fitness:	349
Generation:	14
Max fitness:	314
Generation:	15
Max fitness:	345
Generation:	16
Max fitness:	352
Generation:	17
Max fitness:	356
Generation:	18
Max fitness:	336
Generation:	19
Max fitness:	350
Generation:	20
Max fitness:	334

Positive Words	Negative Words
mail	inconspicuous
ride	toneoverall
buy	fond
this	display
buttons	elsewhere
hoping	verizons
replaced	than
contract	any
great	every
loudglad	swivel
that	upandcoming
store	starts
bars	originally
quality	apparently
message	seemed
leather	large
buzzing	upandcoming
dont	worthless
recommend	shouldnt
with	earbuds
overnight	stars
amazed	buying
sizes	fun
design	center
people	stop

## Grafik:



Fitness başarısı yükselse de çalışma hızı çok düşüyor