

# Yapay Zeka Nedir?

## Kullanılan İçerikler:

### Görüntü Atıfları

#### 1- Yapay Zeka Nedir?

- 0:00 - 0:15 <https://giphy.com/gifs/fire-computer-nerd-g79am6uuZJKSc>
- 0:29 - 0:39  
<https://www.vectorportal.com/StockVectors/Icons/Social-icons-vector-clip-art/36764.aspx#>
- 0:47 - 0:51
  - <https://theweek.com/articles/604656/ behold-innovative-power-biomimetics>
  - <https://www.scoop.it/topic/biomimicry/?tag=Bats>
  - <https://oppositelock.kinja.com/hawk-profile-vs-b-2-profile-456804971>
  - [https://s3.amazonaws.com/upload.inkspire.org/uploads%2F1534138475360-train\\_bird\\_comparison\\_crop-729ec57f51d51e1fd9205d29c2424e4e.jpg](https://s3.amazonaws.com/upload.inkspire.org/uploads%2F1534138475360-train_bird_comparison_crop-729ec57f51d51e1fd9205d29c2424e4e.jpg)
- 0:51 - 1:00  
<https://fineartamerica.com/featured/leonardo-da-vinci-antique-flying-machine-under-parchment-a-nenad-cerovic.html>
- 1:03 - 1:06 <https://oppositelock.kinja.com/hawk-profile-vs-b-2-profile-456804971>
- 1:07 - 1:18  
[https://s3.amazonaws.com/upload.inkspire.org/uploads%2F1534138475360-train\\_bird\\_comparison\\_crop-729ec57f51d51e1fd9205d29c2424e4e.jpg](https://s3.amazonaws.com/upload.inkspire.org/uploads%2F1534138475360-train_bird_comparison_crop-729ec57f51d51e1fd9205d29c2424e4e.jpg)
- 1:18 - 1:28 <https://www.youtube.com/watch?v=sBBaNYex3E>
- 1:32 - 1:45 <https://media.giphy.com/media/xT0BKr4MvHdohFTe6s/giphy.gif>
- 1:47 - 2:01  
[https://www.flaticon.es/icono-gratis/codificacion\\_2845871?term=inteligencia%20artificial&page=2&position=83](https://www.flaticon.es/icono-gratis/codificacion_2845871?term=inteligencia%20artificial&page=2&position=83)

#### 2 - Yapay Zekanın Dünü ve Bugünü

- 0:09 - 0:14 <https://giphy.com/gifs/11QhDjECWTqyU8>
- 0:21 - 0:26 [https://www.haberler.com/trend/42/alan-turing\\_8464\\_b.jpg](https://www.haberler.com/trend/42/alan-turing_8464_b.jpg)
- 0:53 - 1:01  
<https://d2f0ora2gkri0g.cloudfront.net/32/1a/321a1c45-fbb7-4c87-ad51-82bb3df5cfe5.jpg>
- 0:58 - 1:01  
<https://i1.wp.com/blog.burakkutbay.com/wp-content/uploads/2014/08/dd2f.jpg?resize=496%2C311>

- 1:05 - 1:41 <https://www.youtube.com/watch?v=RMK9AphfLco>
- 1:54 - 2:12 <https://www.youtube.com/watch?v=aNpv3LfCUa4>
- 2:15 - 2:42 <https://www.youtube.com/watch?v=8KRZX5KL4fA>
- 2:45 - 3:06 <https://www.youtube.com/watch?v=P18EdAKuC1U>
- 3:10 - 3:23 <https://dingyue.ws.126.net/yVJSvTRCxAgInANiHIX2f3C=aN26wmyWnH1PNKyqa3KI1549172892872compressflag.jpg>
- 3:25 - 4:03 <https://www.youtube.com/watch?v=WXuK6gekU1Y>

### 3 - Yapay Zekanın Etkilediği Alanlar

- 0:00 - 0:08 <https://i.pinimg.com/originals/31/c6/16/31c6162cef711ca7fa464b99f51b2a6a.jpg>
- 0:12 - 0:20 <https://i.pinimg.com/originals/da/a0/8b/daa08bd066ba9124e24e7da35e22d11b.jpg>
- 0:14 - 0:20 <https://www.biolabsg.com/images/contract-manufacturing.jpg>
- 0:15 - 0:20 [https://pic4.zhimg.com/v2-9e3b0eb53921b905efa806752a298633\\_r.jpg](https://pic4.zhimg.com/v2-9e3b0eb53921b905efa806752a298633_r.jpg)
- 0:16 - 0:20 <https://www.indir.com/haberler/otonom-araclar-hacklenme-tehlikesiyle-karsi-karsiya>
- 0:21 - 1:08 <https://upload.wikimedia.org/wikipedia/en/8/8e/AppleSirilcon2017.png>
- [https://upload.wikimedia.org/wikipedia/commons/5/5a/Google Assistant logo.png](https://upload.wikimedia.org/wikipedia/commons/5/5a/Google_Assistant_logo.png)
- 1:09 - 1:43 <https://youtu.be/wNAmxL25Bhk>
- 1:44 - 1:48 [https://www.freepik.com/free-vector/autonomous-driverless-vehicles\\_6828485.htm#page=1&query=driverless&position=33](https://www.freepik.com/free-vector/autonomous-driverless-vehicles_6828485.htm#page=1&query=driverless&position=33)
- 1:49 - 2:03 [https://www.youtube.com/watch?v=nXlqv\\_k4P8Q](https://www.youtube.com/watch?v=nXlqv_k4P8Q)
- 2:06 - 2:19 <https://www.youtube.com/watch?v=Hlb-kA9IFyk>
- 2:20 - 2:33 <https://pharmaphorum.com/wp-content/uploads/2017/03/Google-AI-breast-cancer.png>
- 2:37 - 2:45 <https://media.giphy.com/media/143qWPF33HtSTK/giphy.gif>
- 2:57 - 3:13 <https://obvious-art.com/>
- 3:14 - 3:27 <http://www.bichman.com/blue-jeans-and-bloody-tears-end-credits>
- 3:26 - 4:04 [https://www.youtube.com/watch?v=4MKAf6YX\\_7M](https://www.youtube.com/watch?v=4MKAf6YX_7M)
- 4:05 - 4:10 [https://www.the-building.eu/images/stories/c\\_michael\\_zapf\\_11.jpg\\_1600x900\\_q85\\_back\\_ground-4f4f4f\\_crop-smart\\_cropper-elbphilharmonie\\_slide- subsampling-2\\_processed.jpg](https://www.the-building.eu/images/stories/c_michael_zapf_11.jpg_1600x900_q85_back_ground-4f4f4f_crop-smart_cropper-elbphilharmonie_slide- subsampling-2_processed.jpg)
- 4:11 - 4:18 <https://www.youtube.com/watch?v=XxEs4gmXc68&t=1s>
- 4:19 - 4:23 [https://img.mp.itc.cn/upload/20170730/748ffa0258024f2cb95c234753d41184\\_th.jpg](https://img.mp.itc.cn/upload/20170730/748ffa0258024f2cb95c234753d41184_th.jpg)
- 4:24 - 4:57 <https://www.youtube.com/watch?v=-IDQ2NkHVc8>

### 4 - Günlük Hayattan Yapay Zeka Örnekleri

- 0:03 - 0:14 [https://www.digitalgrads.com/wp-content/uploads/2018/04/vprojectold1-tang-316\\_2-copy.jpg](https://www.digitalgrads.com/wp-content/uploads/2018/04/vprojectold1-tang-316_2-copy.jpg)
- 0:18 - 0:23
  - [https://image.freepik.com/vector-gratis/personajes-avatar-grupo-personas\\_24877-63727.jpg](https://image.freepik.com/vector-gratis/personajes-avatar-grupo-personas_24877-63727.jpg)
  - [https://upload.wikimedia.org/wikipedia/commons/5/5a/Google Assistant logo.png](https://upload.wikimedia.org/wikipedia/commons/5/5a/Google_Assistant_logo.png)

- 0:25 - 0:28 <https://baslangicnoktasi.org/wp-content/uploads/2020/03/spotify.png>
- 0:28 - 0:37
  - [https://cdn.webrazzi.com/uploads/2018/12/dijitalyayin\\_hd.jpg](https://cdn.webrazzi.com/uploads/2018/12/dijitalyayin_hd.jpg)
  - [https://mockupfreedownloads.com/wp-content/uploads/edd/2020/04/tv-templat-e-background\\_1412-18-1200x900.jpg](https://mockupfreedownloads.com/wp-content/uploads/edd/2020/04/tv-templat-e-background_1412-18-1200x900.jpg)
- 0:39 - 0:56 <https://www.youtube.com/watch?v=sYqjs8TKkOE>
- 0:58 - 1:03 <https://medium.com/t%C3%BCrkiye/how-i-met-your-a-i-77e3b2fd90ba>
- 1:04 - 1:15 <https://giphy.com/gifs/fire-messenger-notif-huyZxllvtqVeRp7QcS>
- 1:16 - 1:20 <https://media.giphy.com/media/PsGZEKpj1pSNy/giphy.gif>

## 5 - Öneri Sistemleri

- 0:01 - 0:08
  - <http://www.boostsolutions.com/blog/wp-content/uploads/2013/05/how-interesting.jpg>
  - <https://img-s2.onedio.com/id-5d5e630471f0f0ab291b1c01/rev-0/w-1280/h-720/f-jpg/s-f149f16e2e3c4f9eafad6a93d47bb8a0e118e579.jpg>
  - [https://upload.wikimedia.org/wikipedia/tr/b/b3/Ceza\\_Suspuz\\_Kapa%C4%9F%C4%B1.jpg](https://upload.wikimedia.org/wikipedia/tr/b/b3/Ceza_Suspuz_Kapa%C4%9F%C4%B1.jpg)
  - <https://www.esenshop.com/Uploads/UrunResimleri/Cimilli-lbo---Oyna-ed67.jpg>
  - <https://www.klasgame.com/uploads/spotify-logo.png>
- 0:11 - 0:51
  - [https://www.freepik.com/free-vector/illustrated-people-avatars-collection\\_7136769.htm#page=5&query=avatar&position=40](https://www.freepik.com/free-vector/illustrated-people-avatars-collection_7136769.htm#page=5&query=avatar&position=40)
  - [https://www.freepik.com/free-vector/sport-shoes-sneakers-set\\_4445065.htm#page=1&query=shoes&position=12](https://www.freepik.com/free-vector/sport-shoes-sneakers-set_4445065.htm#page=1&query=shoes&position=12)
- 0:56 - 1:04 [https://miro.medium.com/max/1400/1\\*uv\\_A8aWl1P-NakrgMBLskw.jpeg](https://miro.medium.com/max/1400/1*uv_A8aWl1P-NakrgMBLskw.jpeg)

## 6 - Yapay Genel Zeka ve Yapay Dar Zeka

- 0:09 - 0:20 [https://www.freepik.es/vector-gratis/conjunto-iconos-dibujos-animados-asistentes-robots\\_6147506.htm](https://www.freepik.es/vector-gratis/conjunto-iconos-dibujos-animados-asistentes-robots_6147506.htm)
- 0:23 - 0:35 [https://www.freepik.com/free-vector/chat-bot-ai-robot-set-future-marketing-innovation\\_6612178.htm#page=2&query=robot+character&position=21](https://www.freepik.com/free-vector/chat-bot-ai-robot-set-future-marketing-innovation_6612178.htm#page=2&query=robot+character&position=21)
- 0:36 - 0:41 [https://www.freepik.com/free-vector/artificial-intelligence-illustration\\_3264825.htm](https://www.freepik.com/free-vector/artificial-intelligence-illustration_3264825.htm)
- 0:42 - 0:52 [https://www.freepik.com/free-vector/hand-drawn-thinking-concept-background\\_4723684.htm#page=1&query=mind&position=0](https://www.freepik.com/free-vector/hand-drawn-thinking-concept-background_4723684.htm#page=1&query=mind&position=0)

## 7 - Yapay Zeka ve Etik

### Birinci Video

- 0:02 - 0:24
  - <https://im0-tub-tr.yandex.net/i?id=bcd6972ae36b54f0b4ce5b888b7628fa&n=13>
  - [https://i.gr-assets.com/images/S/compressed.photo.goodreads.com/books/1470740515/31381135.\\_SY475\\_.jpg](https://i.gr-assets.com/images/S/compressed.photo.goodreads.com/books/1470740515/31381135._SY475_.jpg)
- 0:26 - 1:21

- [https://img.freepik.com/free-vector/people-avatar-concept-illustration-theme\\_23-2148466139.jpg?size=626&ext=jpg](https://img.freepik.com/free-vector/people-avatar-concept-illustration-theme_23-2148466139.jpg?size=626&ext=jpg)
- <https://im0-tub-tr.yandex.net/i?id=ebefd60c66f6d0658d0db6b6c36ae92e&n=13&exp=1>
- 1:22 - 1:32 <https://www.youtube.com/watch?v=3wLqsRLvV-c>
- 1:44 - 1:54 [https://www.freepik.com/free-vector/cute-chat-bot-cartoon-conversation-robot\\_6612176.htm#page=1&query=robot%20character&position=18](https://www.freepik.com/free-vector/cute-chat-bot-cartoon-conversation-robot_6612176.htm#page=1&query=robot%20character&position=18)
- 1:56 - 2:01 <https://chatbotsmagazine.com/difficult-conversations-1-voice-recognition-error-handling-74d93056ddce>
- 2:02 - 2:10 <https://www.quantamagazine.org/neuroscience-readies-for-a-showdown-over-consciousness-ideas-20190306/>
- 2:13 - 2:26 <https://www.hbo.com/westworld/season-01/2-chestnut>

## İkinci Video

- 0:09 - 0:46
  - [https://www.freepik.com/free-vector/different-types-trains-illustration\\_1169331.htm#page=1&query=train&position=19](https://www.freepik.com/free-vector/different-types-trains-illustration_1169331.htm#page=1&query=train&position=19)
  - <http://cdn.designblognews.com/wp-content/uploads/2016/04/railway-track-design-vector-material-transport-lazy-gallery-14600324778n4gk.jpg>
  - [https://media1.thehungryjpeg.com/thumbs2/400\\_3593971\\_nrl017pb8dhy3b1ys0bn33idn1ivdlp5bx0cq3jm\\_machinery-flat-icons.jpg](https://media1.thehungryjpeg.com/thumbs2/400_3593971_nrl017pb8dhy3b1ys0bn33idn1ivdlp5bx0cq3jm_machinery-flat-icons.jpg)
  - <https://thumbs.dreamstime.com/b/construction-workers-set-set-construction-workers-safety-vests-helmets-working-tool-materials-isolated-vector-103123893.jpg>
  - [https://image.freepik.com/free-vector/set-female-worker-yellow-wear-walking-running-rear-front-view\\_89224-1866.jpg](https://image.freepik.com/free-vector/set-female-worker-yellow-wear-walking-running-rear-front-view_89224-1866.jpg)
- 0:47 - 1:12 [https://www.youtube.com/watch?v=-N\\_RZJUAQY4](https://www.youtube.com/watch?v=-N_RZJUAQY4)
- 1:21 - 1:35 [https://image.freepik.com/free-vector/devil-characters-hand-drawn-halloween-costumes\\_23-2148262202.jpg](https://image.freepik.com/free-vector/devil-characters-hand-drawn-halloween-costumes_23-2148262202.jpg)
- 1:43 - 1:53 <https://im0-tub-tr.yandex.net/i?id=a18c959bc46f401cd5d2c0d3dac0d640&n=13&exp=1>
- 1:55 - 2:03 <https://www.rm-news.de/wp-content/uploads/2018/10/MoralMachine.jpg>

## 8 - Yapay Zeka ve Önyargı

- 0:03 - 0:09 <https://www.findeks.com/Resources/Products/8249/bireysel-findekskrednotu.png>
- 0:12 - 0:23
  - [https://www.freepik.com/free-vector/modern-city-buildings\\_4393649.htm#page=1&query=bank&position=21](https://www.freepik.com/free-vector/modern-city-buildings_4393649.htm#page=1&query=bank&position=21)
  - <https://thumbs.gfycat.com/RipeTintedAustralianfreshwatercrocodile-mobile.mp4>
  - <https://tenor.com/view/walk-sad-depressed-lonely-alone-gif-5011387>
  - <https://thumbs.gfycat.com/LikelyColorfulBighorn-mobile.mp4>
- 0:39 - 0:49 <https://medium.com/@Joy.Buolamwini/response-racial-and-gender-bias-in-amazon-rekognition-commercial-ai-system-for-analyzing-faces-a289222eeced>
- 0:50 - 0:57 <https://www.wired.com/story/ai-biased-how-scientists-trying-fix/>
- 1:01 - 1:09

- [https://www.freepik.com/free-vector/hand-drawn-robot-collection-with-different-poses\\_1577033.htm#page=1&query=robot%20character&position=24](https://www.freepik.com/free-vector/hand-drawn-robot-collection-with-different-poses_1577033.htm#page=1&query=robot%20character&position=24)
  - [https://www.freepik.com/free-vector/illustration-gear-doodle-icon\\_2606116.htm#page=1&query=gearwheel&position=3](https://www.freepik.com/free-vector/illustration-gear-doodle-icon_2606116.htm#page=1&query=gearwheel&position=3)
- 1:14 - 1:19
  - <https://www.seekpng.com/ima/u2t4u2o0a9w7a9o0/>
  - [https://www.freepik.com/free-vector/robot-wait-job-interview-door-corridor\\_4155946.htm#page=8&query=robot&position=48](https://www.freepik.com/free-vector/robot-wait-job-interview-door-corridor_4155946.htm#page=8&query=robot&position=48)
- 1:20 - 1:21 <https://unbabel.com/blog/gender-bias-artificial-intelligence/>
- 1:23 - 1:26 [https://www.freepik.com/free-vector/losing-job-due-coronavirus-crisis\\_8305137.htm#page=1&query=job%20lost&position=15](https://www.freepik.com/free-vector/losing-job-due-coronavirus-crisis_8305137.htm#page=1&query=job%20lost&position=15)
- 1:30 - 1:37 [https://www.freepik.com/free-vector/pair-programming-concept-illustration\\_7407444.htm#page=3&query=code&position=0](https://www.freepik.com/free-vector/pair-programming-concept-illustration_7407444.htm#page=3&query=code&position=0)

## 9 - Yapay Zeka ve Hukuk

### Birinci Video

- 0:03 - 0:12
  - <https://t24.com.tr/konular/facebookta-cambridge-analytica-skandali-abd-secimlerinde-50-milyon-kisinin-verileri-kullanildi.213>
  - <https://webrazzi.com/2019/08/05/deepfake-sahte-video-fotograf-sosyal-medya/>
  - <https://medium.com/@Joy.Buolamwini/response-racial-and-gender-bias-in-amazon-rekognition-commercial-ai-system-for-analyzing-faces-a289222eeced>
- 0:14 - 0:19 - <https://www.youtube.com/watch?v=Fc1P-AEaEp8>
- 0:30 - 0:38 <https://tenor.com/view/strangle-kill-bad-cop-robot-angry-gif-16812080>
- 0:40 - 0:51
  - [https://www.freepik.com/free-vector/hand-drawn-robot-character-with-different-poses-collection\\_1510298.htm#page=1&query=robot+character&position=21](https://www.freepik.com/free-vector/hand-drawn-robot-character-with-different-poses-collection_1510298.htm#page=1&query=robot+character&position=21)
  - [https://www.freepik.com/free-vector/small-start-up-company\\_1311614.htm#page=1&query=software%20engineer&position=43](https://www.freepik.com/free-vector/small-start-up-company_1311614.htm#page=1&query=software%20engineer&position=43)
  - [https://www.freepik.com/free-vector/customer-survey-concept-illustration\\_5841882.htm#page=1&query=customer&position=2](https://www.freepik.com/free-vector/customer-survey-concept-illustration_5841882.htm#page=1&query=customer&position=2)
- 0:52 - 0:57
  - [https://www.freepik.com/free-vector/character-poses-pack\\_7763366.htm](https://www.freepik.com/free-vector/character-poses-pack_7763366.htm)
  - [https://www.freepik.com/free-vector/businessman-different-situations\\_2881069.htm#page=1&query=people%20characters&position=44](https://www.freepik.com/free-vector/businessman-different-situations_2881069.htm#page=1&query=people%20characters&position=44)
  - [https://www.freepik.com/free-vector/interior-prison-dungeon-room-prisoners\\_4758484.htm#page=1&query=prison&position=40](https://www.freepik.com/free-vector/interior-prison-dungeon-room-prisoners_4758484.htm#page=1&query=prison&position=40)
- 1:08 - 1:12 [https://www.freepik.com/free-vector/dark-prison-cell-interior-cartoon\\_4758473.htm#page=1&query=prison&position=5](https://www.freepik.com/free-vector/dark-prison-cell-interior-cartoon_4758473.htm#page=1&query=prison&position=5)
- 1:14 - 1:18 [https://upload.wikimedia.org/wikipedia/commons/thumb/1/1e/European\\_Parliament\\_logo.svg/1200px-European\\_Parliament\\_logo.svg.png](https://upload.wikimedia.org/wikipedia/commons/thumb/1/1e/European_Parliament_logo.svg/1200px-European_Parliament_logo.svg.png)
- 1:18 - 1:27
  - [https://www.freepik.com/free-vector/robot-thinking-cube-isometric-composition\\_4300553.htm#page=1&query=thinking%20robot&position=12](https://www.freepik.com/free-vector/robot-thinking-cube-isometric-composition_4300553.htm#page=1&query=thinking%20robot&position=12)
  - <https://tenor.com/view/robot-hug-aww-neil-degrasse-tyson-gif-5665699>

- 1:27 - 1:36 <https://www.youtube.com/watch?v=ggLge1Rw2z4>
- 1:36 - 1:41 [https://www.freepik.com/free-vector/robotics-concept-illustration\\_7273246.htm#page=2&query=robot&position=8](https://www.freepik.com/free-vector/robotics-concept-illustration_7273246.htm#page=2&query=robot&position=8)
- 1:42 - 1:53 <https://medium.com/@Zelros/ai-for-insurance-4-trends-to-watch-in-2020-40f6f173f576>:

## İkinci Video

- 0:12 - 0:41 <https://www.youtube.com/watch?v=TX8MSZy5I3I>
- 0:41 - 0:50 <https://www.youtube.com/watch?v=8WVoJ6JNLO8>
- 0:52 - 1:03 [https://www.freepik.com/free-vector/gdpr-concept-with-flat-design\\_2488233.htm#page=2&query=gdpr&position=19](https://www.freepik.com/free-vector/gdpr-concept-with-flat-design_2488233.htm#page=2&query=gdpr&position=19)
- 1:05 - 1:29 [https://www.freepik.com/free-vector/pack-people-avatars\\_7085146.htm#page=1&query=avatar&position=12](https://www.freepik.com/free-vector/pack-people-avatars_7085146.htm#page=1&query=avatar&position=12)
- 1:32 - 1:47 [https://www.freepik.com/free-vector/search-concept-landing-page\\_5060354.htm](https://www.freepik.com/free-vector/search-concept-landing-page_5060354.htm)
- 2:27 - 2:31 <https://cdn.marketing91.com/wp-content/uploads/2020/01/Importance-of-salesmanship.jpg>
- 2:32 - 2:40 [https://www.freepik.com/free-vector/search-concept-landing-page\\_5168222.htm](https://www.freepik.com/free-vector/search-concept-landing-page_5168222.htm)
- 2:43 - 2:48 [https://www.freepik.com/free-vector/fingerprint-investigation\\_789253.htm#page=1&query=fingerprint&position=7](https://www.freepik.com/free-vector/fingerprint-investigation_789253.htm#page=1&query=fingerprint&position=7)
- 2:49 - 2:54 [https://www.flaticon.com/free-icon/kidnapping\\_1427431](https://www.flaticon.com/free-icon/kidnapping_1427431)
- 2:57 - 3:01 [https://www.freepik.com/free-vector/road-location-map-graphic\\_831364.htm#page=2&query=location&position=6](https://www.freepik.com/free-vector/road-location-map-graphic_831364.htm#page=2&query=location&position=6)
- 3:15 - 3:21 <https://giphy.com/gifs/space-photo-8bit-l2lhDpSMnXPYsvK36>
- 3:23 - 3:31 <https://giphy.com/gifs/computer-angry-panda-zrdUjl6N99nLq>
- 3:33 - 3:42 <https://tenor.com/view/two-spiderman-pointing-meme-gif-11796793>
- 3:44 - 3:59 <https://medium.com/peoplebox-ats/kisisel-verileri-koruma-kanunu-kvkk-nedir-sirketlerin-ne-yapmasi-gerekior-cd8c4b93a235>

## 10 - Yapay Zekada İş Alanları

- 0:01 - 0:06 [https://www.freepik.com/free-vector/artificial-intelligence-concept-icons-set\\_4005942.htm#page=1&query=artificial%20intelligence%20business&position=46](https://www.freepik.com/free-vector/artificial-intelligence-concept-icons-set_4005942.htm#page=1&query=artificial%20intelligence%20business&position=46)
- 0:09 - 0:30 [https://www.freepik.com/free-vector/light-bulb-people-working-studying\\_4530281.htm#page=3&query=researcher&position=29](https://www.freepik.com/free-vector/light-bulb-people-working-studying_4530281.htm#page=3&query=researcher&position=29)
- 0:31 - 0:39 [https://www.freepik.com/free-photo/startup-business-teamwork-meeting-concept\\_1235178.htm#page=1&query=data%20analysis&position=3](https://www.freepik.com/free-photo/startup-business-teamwork-meeting-concept_1235178.htm#page=1&query=data%20analysis&position=3)
- 0:40 - 1:05
  - [https://www.freepik.com/free-vector/programmer-working-isometric-style\\_4911004.htm#page=1&query=software%20engineer&position=44](https://www.freepik.com/free-vector/programmer-working-isometric-style_4911004.htm#page=1&query=software%20engineer&position=44)

- [https://www.freepik.com/free-vector/datacenter-concept-with-connection-software-hardware-symbols-isometric\\_7286830.htm#page=1&query=software%20engineer&position=37](https://www.freepik.com/free-vector/datacenter-concept-with-connection-software-hardware-symbols-isometric_7286830.htm#page=1&query=software%20engineer&position=37)
- 1:08 - 1:18
  - [https://www.freepik.com/free-vector/law-justice-concept\\_3139371.htm#page=1&query=law&position=27](https://www.freepik.com/free-vector/law-justice-concept_3139371.htm#page=1&query=law&position=27)
  - [https://media.wired.com/photos/5afb6983812eef48e7ed14b9/master/w\\_2560%2Cc\\_limit/ai\\_ethics-FINAL.jpg](https://media.wired.com/photos/5afb6983812eef48e7ed14b9/master/w_2560%2Cc_limit/ai_ethics-FINAL.jpg)
- 1:19 - 1:24 <https://www.edureka.co/blog/types-of-artificial-intelligence/>

## 11 - Yapay Zeka Hakkında Film ve Dizi Önerileri

- 0:03 - 0:07 <https://www.youtube.com/watch?v=6vzvGBIWi3E>
- 0:08 - 0:15 <https://giphy.com/gifs/XAb9phSBfN1Kg>
- 0:16 - 1:03 <https://www.youtube.com/watch?v=m8e-FF8MsqU>
- 1:04 - 1:35 <https://www.youtube.com/watch?v=EoOuVnKhxaM>
- 1:36 - 2:37 [https://www.youtube.com/watch?v=6QRvTv\\_tpw0](https://www.youtube.com/watch?v=6QRvTv_tpw0)
- 2:38 - 4:14 <https://www.youtube.com/watch?v=zSWdZVtXT7E>
- 4:15 - 4:51 <https://www.youtube.com/watch?v=Pc25bbnjT9E>
- 4:51 - 6:14 <https://www.youtube.com/watch?v=9BqKiZhEFFw>

## İçerik Atıfları

### 1- Yapay Zeka Nedir?

- [Artificial Intelligence: A Modern Approach](#)
- [The Cambridge Handbook of Artificial Intelligence](#)
- [AI4ALL](#)
- <https://medium.com/bili%C5%9Fim-hareketi/yapay-zeka-geli%C5%9Firme-rehberi-v1-d8ff0c6cabf>

### 2 - Yapay Zekanın Dünü ve Bugünü

- <https://turkiye.ai/yapay-zeka-zaman-cizelgesi/>
- [https://en.wikipedia.org/wiki/History\\_of\\_artificial\\_intelligence](https://en.wikipedia.org/wiki/History_of_artificial_intelligence)

### 3 - Yapay Zekanın Etkilediği Alanlar

- [AI4ALL](#)
- <https://www.yapayzekatr.com/2019/04/30/akilli-asistan-sanal-asistan-nedir/>
- [https://tr.wikipedia.org/wiki/Sanal\\_asistan](https://tr.wikipedia.org/wiki/Sanal_asistan)
- <https://www.endustri40.com/surucusuz-otonom-araclar/>
- <https://ioturkiye.com/2019/10/otonom-araclar/>
- <https://www.youtube.com/watch?v=OeKfSosXsuU&t=105s>

### 4 - Günlük Hayattan Yapay Zeka Örnekleri

- <https://interestingengineering.com/everyday-applications-of-artificial-intelligence-that-affect-your-daily-life>



## 5 - Öneri Sistemleri

- [https://tr.wikipedia.org/wiki/%C3%96neri\\_sistemi](https://tr.wikipedia.org/wiki/%C3%96neri_sistemi)
- <https://towardsdatascience.com/introduction-to-recommender-systems-6c66cf15ada>
- <https://medium.com/@irmcilingir/%C3%B6neri-sistemleri-recommendation-systems-28a3f341c0a9>

## 6 - Yapay Genel Zeka ve Yapay Dar Zeka

- <https://www.machinedesign.com/markets/robotics/article/21835139/whats-the-difference-between-weak-and-strong-ai>
- <https://www.tekyolbilim.com/genel-ve-dar-yapay-zeka-farklari/>

## 7 - Yapay Zeka ve Etik

- Turing, A. M. (2009). Computing machinery and intelligence. In Parsing the Turing Test (pp. 23-65). Springer, Dordrecht.
- ÇELEBİ, V., & İNAL, A. (2019). YAPAY ZEKÂ BAĞLAMINDA ETİK PROBLEMİ. Journal of International Social Research, 12(66).
- [İTÜ Vakfı dergisi 75.sayısı](#) "Ya Yapay Ahlâk" - Tevfik Uyar
- <https://barisozcan.com/tramvay-problemi/>
- <https://evrimagaci.org/etik-ikilem-sorulari-siz-olsaniz-ne-yapardiniz-1563>

## 8 - Yapay Zeka ve Önyargı

- [AI4ALL](#)
- <https://www.livescience.com/58675-artificial-intelligence-learns-biases-from-human-language.html>
- <https://medium.com/@joy.Buolamwini/response-racial-and-gender-bias-in-amazon-recognition-commercial-ai-system-for-analyzing-faces-a289222eeced>
- <https://webrazzi.com/2018/10/11/amazon-ise-alim-icin-urettigi-yapay-zekayi-cinsiyetcilik-yaptigi-icin-kapatti/>

## 9 - Yapay Zeka ve Hukuk

- INCE, Ş., ŞİMŞEK, M. Z., & KAYNARCA, F. (2019). YAPAY ZEKÂ VE ROBOTLARIN HUKUKİ SORUMLULUĞUNUN TÜRK YASAL MEVZUATI ÇERÇEVESİNDE İNCELENMESİ. *GS/ARTICLETTER*, 28.
- <https://evrimagaci.org/yapay-zeka-ve-hukuk-akilli-sistemler-hukuk-uygulamalarini-nasil-etkiliyor-8212>
- [Kişisel Verilerin Korunma Kurumu](#)

## 10 - Yapay Zekada İş Alanları

- [AI4ALL](#)
- <https://www.springboard.com/blog/machine-learning-engineer-vs-data-scientist/#:~:text=While%20there's%20some%20overlap%2C%20which.and%20deploying%20complex%2C%20large%2Dscale>



## 11 - Yapay Zeka Hakkında Film ve Dizi Önerileri

- <http://www.beyazperde.com/filmler/film-19776/>
- [https://tr.wikipedia.org/wiki/Matrix\\_\(film\)](https://tr.wikipedia.org/wiki/Matrix_(film))
- <http://www.beyazperde.com/filmler/film-219931/>
- <http://www.beyazperde.com/filmler/film-114782/>
- <http://www.beyazperde.com/filmler/film-206799/>
- <http://www.beyazperde.com/diziler/dizi-9290/>
- <https://www.hbo.com/westworld>

# Veri Bilimi

## Kullanılan İçerikler:

### Görüntü Atıfları

#### 1- Veri Bilimi Nedir?

- 0:00 - 0:15 <https://giphy.com/gifs/fire-computer-nerd-g79am6uuZJKSc>
- 0:29 - 0:39 <https://www.vectorportal.com/StockVectors/Icons/Social-icons-vector-clip-art/36764.aspx#>
- 0:47 - 0:51
  - <https://theweek.com/articles/604656/ behold-innovative-power-biomimetics>
  - <https://www.scoop.it/topic/biomimicry/?&tag=Bats>
  - <https://oppositelock.kinja.com/hawk-profile-vs-b-2-profile-456804971>
  - [https://s3.amazonaws.com/upload.inkspire.org/uploads%2F1534138475360-train\\_bird\\_comparison\\_crop-729ec57f51d51e1fd9205d29c2424e4e.jpg](https://s3.amazonaws.com/upload.inkspire.org/uploads%2F1534138475360-train_bird_comparison_crop-729ec57f51d51e1fd9205d29c2424e4e.jpg)
- 0:51 - 1:00 <https://fineartamerica.com/featured/leonardo-da-vinci-antique-flying-machine-under-parachment-a-nenad-cerovic.html>
- 1:03 - 1:06 <https://oppositelock.kinja.com/hawk-profile-vs-b-2-profile-456804971>
- 1:07 - 1:18 [https://s3.amazonaws.com/upload.inkspire.org/uploads%2F1534138475360-train\\_bird\\_comparison\\_crop-729ec57f51d51e1fd9205d29c2424e4e.jpg](https://s3.amazonaws.com/upload.inkspire.org/uploads%2F1534138475360-train_bird_comparison_crop-729ec57f51d51e1fd9205d29c2424e4e.jpg)
- 1:18 - 1:28 <https://www.youtube.com/watch?v=sBBaNYex3E>
- 1:32 - 1:45 <https://media.giphy.com/media/xT0BKr4MvHdohFTe6s/giphy.gif>
- 1:47 - 2:01 [https://www.flaticon.es/icono-gratis/codificacion\\_2845871?term=inteligencia%20artificial&page=2&position=83](https://www.flaticon.es/icono-gratis/codificacion_2845871?term=inteligencia%20artificial&page=2&position=83)

#### 2 - Crisp - dm

#### Birinci Video

- 0:09 - 0:14 <https://giphy.com/gifs/11QhDjECWTqyU8>
- 0:21 - 0:26 [https://www.haberler.com/trend/42/alan-turing\\_8464\\_b.jpg](https://www.haberler.com/trend/42/alan-turing_8464_b.jpg)

- 0:53 - 1:01 <https://d2f0ora2gkri0g.cloudfront.net/32/1a/321a1c45-fbb7-4c87-ad51-82bb3df5cfe5.jpg>
- 0:58 - 1:01 <https://i1.wp.com/blog.burakkutbay.com/wp-content/uploads/2014/08/dd2f.jpg?resize=496%2C311>
- 1:05 - 1:41 <https://www.youtube.com/watch?v=RMK9AphfLco>
- 1:54 - 2:12 <https://www.youtube.com/watch?v=aNpv3LfCUa4>
- 2:15 - 2:42 <https://www.youtube.com/watch?v=8KRZX5KL4fA>
- 2:45 - 3:06 <https://www.youtube.com/watch?v=P18EdAKuC1U>
- 3:10 - 3:23 <https://dingyue.ws.126.net/yVJSvTRCxAgIlnANiHIX2f3C=aN26wmyWnH1PNKyqa3KI1549172892872compressflag.jpg>
- 3:25 - 4:03 <https://www.youtube.com/watch?v=WXuK6gekU1Y>

### 3 - Python'a Giriş

- 00:09 - 00:17 The Simpsons 7. sezon 7. bölüm
- 00:43 - 00:53 <https://gvanrosum.github.io/pics.html>
- 01:16 - 01:19 <https://mc.ai/what-is-google-colab/>

### 4 - Koşul İfadeleri

- 00:05 - 00:10 [https://www.freepik.com/free-photo/happy-young-couple-field-spring\\_1232101.htm#page=2&query=sunny+day&position=1](https://www.freepik.com/free-photo/happy-young-couple-field-spring_1232101.htm#page=2&query=sunny+day&position=1)
- 00:11 - 00:15 <https://www.pexels.com/tr-tr/fotograf/akilli-telefon-bulaniklik-calisma-yeri-calismak-374897/>
- 00:20 - 00:30 <https://www.vecteezy.com/vector-art/133538-software-vector-icons>
- 02:00 - 02:15 [https://miro.medium.com/max/386/1\\*CCbSz9w\\_E6OvY1oOXM80Q.png](https://miro.medium.com/max/386/1*CCbSz9w_E6OvY1oOXM80Q.png)

### 5 - Döngüler

- 00:05 - 00:12 <https://youtu.be/WK4x6vl10fA>
- 00:12 - 00:20 [https://www.freepik.com/free-vector/daily-activity-man-hands-up-coffee-clock-bed\\_5688790.htm#page=1&query=daily%20activity&position=12](https://www.freepik.com/free-vector/daily-activity-man-hands-up-coffee-clock-bed_5688790.htm#page=1&query=daily%20activity&position=12)
- 00:21 - 00:33
  - <https://www.vecteezy.com/vector-art/93173-cupcake-stand-vectors-set>
  - <https://www.vecteezy.com/vector-art/103186-free-cupcakes-vector>
- 00:35 - 00:52
  - [https://www.flaticon.com/free-icon/pastry-bag\\_1012458](https://www.flaticon.com/free-icon/pastry-bag_1012458)
  - [https://www.flaticon.com/free-icon/power\\_840513?term=start&page=1&position=4](https://www.flaticon.com/free-icon/power_840513?term=start&page=1&position=4)
  - [https://www.flaticon.com/free-icon/power-button\\_929466?term=start&page=1&position=18](https://www.flaticon.com/free-icon/power-button_929466?term=start&page=1&position=18)
- 00:58 - 01:04 <https://www.vecteezy.com/vector-art/229544-female-developer-work-on-her-desk-with-laptop>

## 6 - Döngüler Örnek

- 00:02 - 00:10  
[https://www.freepik.com/free-vector/forgot-password-concept-illustration\\_7070631.htm#page=1&query=password&position=23](https://www.freepik.com/free-vector/forgot-password-concept-illustration_7070631.htm#page=1&query=password&position=23)
- 00:10 - 00:20  
[https://scontent.fist2-2.fna.fbcdn.net/v/t1.0-9/72482288\\_1425496480953444\\_798142611\\_6583751680\\_n.jpg?nc\\_cat=111&nc\\_sid=8024bb&nc\\_ohc=rnbNvuHmqiAAX8fgtwN&nc\\_ht=scontent.fist2-2.fna&oh=4cf16e762024c2ccc23b06ac42b8f12d&oe=5F822786](https://scontent.fist2-2.fna.fbcdn.net/v/t1.0-9/72482288_1425496480953444_798142611_6583751680_n.jpg?nc_cat=111&nc_sid=8024bb&nc_ohc=rnbNvuHmqiAAX8fgtwN&nc_ht=scontent.fist2-2.fna&oh=4cf16e762024c2ccc23b06ac42b8f12d&oe=5F822786)

## 7 - İleri Fonksiyonlar

- 00:23 - 00:45  
<https://www.vecteezy.com/vector-art/230228-female-app-developer-on-monitor-developing-applications-illustration>
- 02:28 - 02:44  
[https://www.freepik.com/free-vector/russian-stacking-doll-set\\_6169045.htm#page=1&query=matryoshka%20doll&position=3](https://www.freepik.com/free-vector/russian-stacking-doll-set_6169045.htm#page=1&query=matryoshka%20doll&position=3)
- 02:47 - 02:49 <https://www.vecteezy.com/vector-art/83107-cancelled-icon-vectors>
- 02:50 - 02:56  
<https://arstechnica.com/information-technology/2013/04/recursion-or-while-loops-which-is-better/>

## 8 - Modüller

- 00:01 - 00:09  
[https://www.freepik.com/free-vector/business-people-working-laptop-development\\_4332351.htm#page=1&query=code&position=43](https://www.freepik.com/free-vector/business-people-working-laptop-development_4332351.htm#page=1&query=code&position=43)
- 00:25 - 00:32
  - [https://www.flaticon.com/free-icon/book\\_2232688](https://www.flaticon.com/free-icon/book_2232688)
  - [https://www.flaticon.com/free-icon/book\\_2232483](https://www.flaticon.com/free-icon/book_2232483)
  - [https://www.flaticon.com/free-icon/book\\_2232472](https://www.flaticon.com/free-icon/book_2232472)
  - [https://www.flaticon.com/free-icon/book\\_2232376](https://www.flaticon.com/free-icon/book_2232376)
  - [https://www.flaticon.com/free-icon/document\\_1102457](https://www.flaticon.com/free-icon/document_1102457)
- 00:35 - 00:50
  - [https://www.flaticon.com/free-icon/document\\_888034?term=paper&page=1&position=40#](https://www.flaticon.com/free-icon/document_888034?term=paper&page=1&position=40#)
  - [https://www.flaticon.com/free-icon/employee\\_554857?term=people&page=1&position=49#](https://www.flaticon.com/free-icon/employee_554857?term=people&page=1&position=49#)
- 00:51 - 01:05  
[https://www.freepik.com/free-vector/people-using-online-apps-set\\_6974932.htm#page=2&query=code&position=40](https://www.freepik.com/free-vector/people-using-online-apps-set_6974932.htm#page=2&query=code&position=40)
- 01:06 - 01:12
  - [https://www.flaticon.com/free-icon/py\\_180867?k=1597352912826](https://www.flaticon.com/free-icon/py_180867?k=1597352912826)
  - [https://www.flaticon.com/free-icon/folder\\_148952](https://www.flaticon.com/free-icon/folder_148952)
- 01:22 - 01:31  
[https://www.flaticon.com/free-icon/application\\_3254969?term=mobile%20application&page=1&position=51](https://www.flaticon.com/free-icon/application_3254969?term=mobile%20application&page=1&position=51)
- 02:37 - 02. 48
  - <http://www.mubuto.com/img/pycharm.png>
  - [https://www.pclipart.com/picdir/middle/219-2192031\\_svg-studio-visual-visual-studio-code-logo-clipart.png](https://www.pclipart.com/picdir/middle/219-2192031_svg-studio-visual-visual-studio-code-logo-clipart.png)

- [https://upload.wikimedia.org/wikipedia/commons/thumb/7/7e/Spyder\\_logo.svg/1200px-Spyder\\_logo.svg.png](https://upload.wikimedia.org/wikipedia/commons/thumb/7/7e/Spyder_logo.svg/1200px-Spyder_logo.svg.png)
- [https://miro.medium.com/max/700/1\\*7oukaplBInsovpHkQB3QZg.jpeg](https://miro.medium.com/max/700/1*7oukaplBInsovpHkQB3QZg.jpeg)

## 9 - Dosya İşlemleri

- 00:01 - 00:06  
<https://www.vecteezy.com/vector-art/202821-cloud-engineers-vector-illustration>
- 00:07 - 00:12
  - [https://www.flaticon.com/free-icon/server\\_627393?term=database&page=1&position=13#](https://www.flaticon.com/free-icon/server_627393?term=database&page=1&position=13#)
  - <https://www.flaticon.com/packs/files-24?k=1597693871448>
- 00:13 - 00:21 <https://frinkiac.com/>
- 00:40 - 01:34
  - [https://www.flaticon.com/free-icon/create\\_1263919?term=create%20file&page=1&position=22#](https://www.flaticon.com/free-icon/create_1263919?term=create%20file&page=1&position=22#)
  - [https://www.flaticon.com/free-icon/search\\_86151?term=read%20file&page=1&position=3#](https://www.flaticon.com/free-icon/search_86151?term=read%20file&page=1&position=3#)
  - [https://www.flaticon.com/free-icon/contract\\_757257?term=write%20file&page=1&position=1#](https://www.flaticon.com/free-icon/contract_757257?term=write%20file&page=1&position=1#)
  - [https://www.flaticon.com/free-icon/file\\_2140661?term=file%20add&page=1&position=4#](https://www.flaticon.com/free-icon/file_2140661?term=file%20add&page=1&position=4#)

## 10 - Hata Yakalama

- 00:00 - 00:22 <https://youtu.be/4CCiGZyEIGM>
- 00:23 - 00:27 <https://www.vecteezy.com/vector-art/180387-software-engineers-vectors>
- 02:42 - 03:01 <https://seeklogo.com/vector-logo/273830/python>
- 03:02 - 03:08
  - [https://matplotlib.org/3.3.1/static/logo2\\_compressed.svg](https://matplotlib.org/3.3.1/static/logo2_compressed.svg)
  - [https://upload.wikimedia.org/wikipedia/commons/thumb/1/1a/NumPy\\_logo.svg/1280px-NumPy\\_logo.svg.png](https://upload.wikimedia.org/wikipedia/commons/thumb/1/1a/NumPy_logo.svg/1280px-NumPy_logo.svg.png)
  - [https://upload.wikimedia.org/wikipedia/commons/thumb/e/ed/Pandas\\_logo.svg/1920px-Pandas\\_logo.svg.png](https://upload.wikimedia.org/wikipedia/commons/thumb/e/ed/Pandas_logo.svg/1920px-Pandas_logo.svg.png)

## 11 - Merkezi Eğilim ve Dağılım Ölçüleri Örnek

- 00:01 - 00:21  
[https://www.flaticon.com/free-icon/infographic\\_3079036?term=data%20analysis&page=1&position=8](https://www.flaticon.com/free-icon/infographic_3079036?term=data%20analysis&page=1&position=8)
- 00:46 - 00:58 <https://www.vecteezy.com/vector-art/173160-free-shopping-center-vectors>
- 01:41 - 01:53
  - [https://www.flaticon.com/free-icon/designer\\_3048163?term=woman&page=1&position=7](https://www.flaticon.com/free-icon/designer_3048163?term=woman&page=1&position=7)
  - [https://www.flaticon.com/free-icon/bussiness-man\\_3048122](https://www.flaticon.com/free-icon/bussiness-man_3048122)

## 12 - Numpy Kütüphanesi

- 00:00 - 00:05 The Simpsons 8. Sezon 23. bölüm
- 00:06 - 00:14  
<https://www.vecteezy.com/vector-art/171851-data-base-concept-vector-illustration>
- 05:42 - 05:48  
[https://www.freepik.com/free-vector/spreadsheets-concept-illustration\\_6450135.htm#page=1&query=data%20file&position=6](https://www.freepik.com/free-vector/spreadsheets-concept-illustration_6450135.htm#page=1&query=data%20file&position=6)

- 06:03 - 06:17 [https://www.flaticon.com/free-icon/csv-file-format\\_1263920?term=csv%20file%20format&page=1&position=22](https://www.flaticon.com/free-icon/csv-file-format_1263920?term=csv%20file%20format&page=1&position=22)
- 06:56 - 07:01 [https://files.realpython.com/media/Python-Text-Parsing\\_Watermarked.5ac48b25acf2.jpg](https://files.realpython.com/media/Python-Text-Parsing_Watermarked.5ac48b25acf2.jpg)

### 13 - Pandas Kütüphanesi

- 00:00 - 00:13 <https://media.giphy.com/media/HUplkVCPY7jTW/giphy.gif>
- 00:23 - 00:28 <https://hackernoon.com/faster-pandas-even-on-your-laptop-cb2042a01055>
- 00:29 - 00:37 <https://realpython.com/pandas-read-write-files/>
- 00:58 - 01:13 <https://media.giphy.com/media/l46Cy1rHbQ92uuLXa/giphy.gif>

### 14 - Pandas ile Temel İşlemler

- 00:03 - 00:18 <https://realpython.com/pandas-dataframe/>

### 15 - Pandas ile Veri Analizi

- 00:01 - 00:11 <https://www.vecteezy.com/vector-art/223696-isometric-data-mining-concept>
- 00:12 - 00:21 [https://files.realpython.com/media/Grouping-and-Aggregating-Data-in-Pandas\\_Watermarked.d79eb1266abf.jpg](https://files.realpython.com/media/Grouping-and-Aggregating-Data-in-Pandas_Watermarked.d79eb1266abf.jpg)

### 16 - Matplotlib Kütüphanesine Giriş

- 00:00 - 00:07 <https://giphy.com/gifs/4Z9h0KfuviJS6r3KK7>
- 00:08 - 00:11 <https://www.vecteezy.com/vector-art/166408-database-vector-pack>
- 00:12 - 00:17 <https://www.vecteezy.com/vector-art/166408-database-vector-pack>

### 17 - Matplotlib Grafik Türleri

- 00:01 - 00:12 <https://www.vecteezy.com/vector-art/183773-graphic-data-visualization>
- 00:15 - 01:00
  - [https://www.flaticon.com/free-icon/line-chart\\_858064?term=line%20graph&page=1&position=53](https://www.flaticon.com/free-icon/line-chart_858064?term=line%20graph&page=1&position=53)
  - [https://www.flaticon.com/free-icon/bubble-graph\\_2393971?term=bubble%20graph&page=1&position=2](https://www.flaticon.com/free-icon/bubble-graph_2393971?term=bubble%20graph&page=1&position=2)
  - [https://www.flaticon.com/free-icon/scatter\\_1449363](https://www.flaticon.com/free-icon/scatter_1449363)
  - [https://www.flaticon.com/free-icon/diagram\\_858736?term=line%20chart&page=1&position=9](https://www.flaticon.com/free-icon/diagram_858736?term=line%20chart&page=1&position=9)
  - [https://www.flaticon.com/free-icon/pie-chart\\_858735](https://www.flaticon.com/free-icon/pie-chart_858735)
- 01:27 - 01:53
  - <https://commons.wikimedia.org/w/index.php?curid=170298>
  - <https://commons.wikimedia.org/w/index.php?curid=72555262>
  - <https://commons.wikimedia.org/w/index.php?curid=10227368>

### 18 - Seaborn Kütüphanesine Giriş

- 00:01 - 00:16 <https://hackersandslackers.com/plotting-data-seaborn-pandas/>
- 00:17 - 00:23 <https://www.vecteezy.com/vector-art/173806-spreadsheet-free-vector-illustration>
- 00:31 - 00:45
  - [https://www.freepik.com/free-vector/people-working-with-technology-isometric-design\\_4831948.htm#page=2&query=useful&position=5](https://www.freepik.com/free-vector/people-working-with-technology-isometric-design_4831948.htm#page=2&query=useful&position=5)

- [https://seaborn.pydata.org/examples/color\\_palettes.html](https://seaborn.pydata.org/examples/color_palettes.html)
- 00:53 - 01:07 [https://westwing.fandom.com/wiki/Sam\\_Seaborn](https://westwing.fandom.com/wiki/Sam_Seaborn)
- 01:09 - 01:24
  - <https://www.vecteezy.com/vector-art/183627-data-visualization-background-illustration>
  - [https://miro.medium.com/max/700/1\\*Em45TVUTW429SgOPUDy2YA.png](https://miro.medium.com/max/700/1*Em45TVUTW429SgOPUDy2YA.png)
  - <https://www.tableau.com/en-gb/about/media-download-center>
  -

## Ses Atıfları

\*Videolarda kullanılan bütün sesler [Youtube Ses Kitaplığı](#) ' dan alınmıştır.

### 1 - Modüller

- Parça Adı: No.4 Piano Journey Sanatçı: Esther Abrahimi
- Parça Adı: Sunrise Drive Sanatçı: South London HiFi

### 2 - Dosya İşlemleri

- Parça Adı: Ellie's Home Stretch Sanatçı: The Great North Sound Society

### 3 - Merkezi Eğilim ve Dağılım Ölçüleri

- Parça Adı: Song of Mirrors Sanatçı: Unicorn Heads

### 4 - Matplotlib Grafik Türleri

- Parça Adı: Whiskey Sanatçı: Huma-Huma

## İçerik Atıfları

### 1- Veri Bilimi Nedir?

- [https://tr.wikipedia.org/wiki/Veri\\_bilimi](https://tr.wikipedia.org/wiki/Veri_bilimi)
- <https://www.oracle.com/tr/data-science/what-is-data-science.html>
- <https://www.ibm.com/tr-tr/analytics/data-science>

### 2 - Crisp - dm

- [Chapman, P., Clinton, J., Kerber, R., Khabaza, T., Reinartz, T., Shearer, C., & Wirth, R. \(2000\). CRISP-DM 1.0: Step-by-step data mining guide. SPSS inc, 9, 13.](#)
- <https://www.sv-europe.com/crisp-dm-methodology/>
- [ŞEKER, Ş. E. CRISP-DM: Endüstriler Arası Standart İşleme-Veri Madenciliği için \(Cross Industry Standard Processing-Data Mining\).](#)
- [Nedir, C. D. Kategori Veri Madenciliği.](#)

### 3 - Python ve Veri Bilimi

- [The Python Tutorial](#)
- [Python Tutorials For Beginners - guru99.com](#)
- [Python Eğitimi - Mobilhanem](#)

- [Python Programlama Dili - YazBel](#)
- [Real Python Tutorials](#)
- [Python - Erdiñ Uzun](#)
- [Learn Python 3](#)
- [Geleceđi Yazarlar - Veri Okuryazarlıđı](#)
- [Veri Bilimi İin İstatistik - Mehmet Yalın](#)
- [Matris Nedir?](#)
- [Numpy Tutorial](#)
- [Numpy Ktphanesi - Merve Tatlıdil](#)
- [Pandas Tutorial](#)
- [Python Pandas Tutorial - Tutorialspoint](#)
- [Python Pandas - GeeksforGeeks](#)
- [Matplotlib Tutorial](#)
- [Matplotlib Yazı Dizisi](#)
- [Python Seaborn Tutorial For Beginners](#)