

**T.C.**

**DOĞUŞ ÜNİVERSİTESİ**

**MESLEK YÜKSEKOKULU**

**Veri Madenciliğinde Sağlık Konulu Yorumların Tarih ve Saat Analizi**

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**VERİ MADENCİLİĞİ BİTİRME PROJESİ**

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TEŞEKKÜR

TEŞEKKÜR

Bu çalışma boyunca yardımlarını ve desteklerini esirgemeyen sevgili aileme ve çalışma sürem içerisinde desteğini ve yardımını her zaman gösteren Sakın Hocama teşekkürlerimi sunarım.

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İÇİNDEKİLER

**Sayfa No**

TEŞEKKÜR i

İÇİNDEKİLER ii

ŞEKİL LİSTESİ iv

ÖZET v

1. GİRİŞ 1

1.1. Projenin Amacı 1

1.2. Projenin Yöntemi 10

1.3. Proje Kısıtları 12

1.4. Literatür çalışması 14

2. MATERYAL VE YÖNTEM 14

2.1. Alt Başlık 14

2.1.1. alt başlık Error! Bookmark not defined.

2.1.2. alt başlık Error! Bookmark not defined.

2.1.2.1. alt başlık **Error! Bookmark not defined.**

2.1.3. alt başlık Error! Bookmark not defined.

2.2. alt başlık 19

2.2.1. alt başlık 19

2.2.2. alt başlık Error! Bookmark not defined.

3. UyGULAMA 24

3.1. alt başlık 24

3.2. alt başlık 25

3.3. alt başlık 27

3.3.1. alt başlık Error! Bookmark not defined.

3.3.2. alt başlık Error! Bookmark not defined.

3.3.3. alt başlık Error! Bookmark not defined.

4. SONUÇLAR VE ÖNERİLER 29

6. Kaynakça 32

7. EKLER 33

7.1. EK 1: alt başlık 33

7.2. alt başlık Error! Bookmark not defined.

ÖZGEÇMİŞ 37

ŞEKİL LİSTESİ

**Sayfa No**

[Şekil 1.1. Şekil 1. 3,7](#_Toc36247615)

[Şekil 1.2. Şekil 2](#_Toc36247616)

[Şekil 1.3. Şekil 3.](#_Toc36247617)

[Şekil 2.1. Şekil 4.](#_Toc36247618) 14,16,18,19,20,21

[Şekil 3.2. Şekil 5.](#_Toc36247619)

[Şekil 3.3. Şekil 6.](#_Toc36247620)

[Şekil 3.4. Şekil 7.](#_Toc36247621)

[Şekil 3.5. Şekil 8.](#_Toc36247622)

ÖZET

**Veri Madenciliğinde Sağlık Konulu Yorumların Tarih ve Saat Analizi**

Sadettin Karadavut

Doğuş Üniversitesi

Meslek Yüksek Okulu, Bilgisayar Programcılığı Programı

Bitirme Projesi

Danışman Öğretim Elemanı : Sakın Can

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Bu çalışmada,

Bu proje, sağlık konulu yorumların tarih ve saat analizi üzerine bir veri madenciliği uygulamasıdır. Veri seti olarak, sağlık konulu yorumlar içeren bir CSV dosyası kullanılmıştır. Projede amaç, bu veri setini kullanarak en çok yorum yapılan saat ve günleri belirlemek ve bu bilgileri yorumların ne zaman daha etkili olduğunu anlamak için kullanmaktır.

Projede Python programlama dili kullanılmış ve "Faker" ve "csv" kütüphaneleri kullanılarak veri seti oluşturulmuştur. Sağlık konulu yorumlar için bir liste tanımlanmış ve her bir yorum için rastgele bir tarih-saat, beğeni sayısı, retweet sayısı ve konum bilgisi oluşturulmuştur. Veri setindeki yorumlar, rastgele olarak oluşturulan bu veriler kullanılarak belirtilen formatta CSV dosyasına yazılmıştır.

Projenin ana amacı, veri setindeki yorumların tarih ve saatlerini analiz etmektir. Bu amaçla, "datetime" kütüphanesi kullanılarak yorumların tarih ve saat bilgileri çıkarılmıştır. Daha sonra, en çok yorum yapılan saat ve günleri belirlemek için bu bilgileri kullanarak bir saat ve gün dağılımı grafiği oluşturulmuştur. Bu grafikler, yorumların ne zaman daha etkili olduğunu anlamak için kullanılabilir.

Projenin sonucunda, en çok yorum yapılan saat ve günler belirlenmiştir. Bu bilgiler, sağlık konulu yorumlar için daha etkili bir yayın stratejisi oluşturmak için kullanılabilir.

**Anahtar Kelimeler**: Sağlık yorumları, Tarih ve saat analizi, Veri madenciliği

# GİRİŞ

## Projenin Amacı

Veri madenciliği, büyük miktarda veri içerisinde gizli kalmış bilgileri, desenleri ve ilişkileri keşfetmek için istatistiksel ve matematiksel teknikleri kullanarak veri analizi yapma sürecidir. Günümüzde, hemen hemen her sektörde veri madenciliği önemli bir rol oynamaktadır. Hükümetler, finans kurumları, sağlık hizmetleri, perakende sektörü, telekomünikasyon ve daha birçok sektör, veri madenciliği ile elde edilen bilgilere dayanarak stratejik kararlar almakta ve iş süreçlerini iyileştirmektedir.

Veri madenciliği, büyük veri analitiği için temel bir araçtır. Günümüzde internet, sosyal medya, sensörler, akıllı cihazlar ve diğer kaynaklar aracılığıyla sürekli olarak veri üretiyoruz. Ancak, bu veri miktarı o kadar büyük ve karmaşıktır ki, içerisindeki değerli bilgileri anlamak ve kullanmak oldukça zor hale gelir. İşte burada veri madenciliği devreye girer. Veri madenciliği, veri içerisindeki kalıpları ve ilişkileri keşfederek bilgiye dönüştürür ve daha sonra bu bilgileri kullanarak öngörülerde bulunur, trendleri analiz eder ve karar destek sistemleri oluşturur.

**Veri Madenciliği Teknikleri**

Veri madenciliği için çeşitli teknikler ve algoritmalar mevcuttur. İşte bazı temel veri madenciliği teknikleri:

Sınıflandırma: Sınıflandırma, veri kümesini belirli bir sınıfa veya kategoriye atamak için kullanılan bir tekniktir. Örneğin, bir banka müşterisinin kredi riskini belirlemek veya bir e-postanın spam olup olmadığını sınıflandırmak gibi uygulamalarda sınıflandırma kullanılır.

Kümeleme: Kümeleme, benzer özelliklere sahip veri noktalarını gruplandırmak için kullanılan bir tekniktir. Kümeleme algoritmaları, veri içindeki doğal gruplamaları ortaya çıkarabilir. Örneğin, müşteri segmentasyonu veya pazar segmentlerini belirleme gibi alanlarda kümeleme kullanılır.

Tahminleme: Tahminleme, mevcut veriye dayanarak gelecekteki değerleri tahmin etmek için kullanılan bir tekniktir. Regresyon analizi ve zaman serisi analizi gibi yöntemler kullanılarak tahminleme yapılabilir. Örneğin, satış tahminleri yapmak veya hisse senedi fiyatlarını öngörmek gibi uygulamalarda tahminleme kullanılır.

Derin Öğrenme: Derin öğrenme, sinir ağlarından yararlanarak karmaşık desenleri keşfetmek için kullanılan bir makine öğrenmesi yaklaşımıdır. Derin öğrenme algoritmaları, çok katmanlı yapılara sahip sinir ağları kullanır ve genellikle görüntü işleme, doğal dil işleme ve otomatik tanıma gibi alanlarda başarılı sonuçlar verir.

**Veri Madenciliği Uygulama Alanları**

Veri madenciliği, birçok farklı sektörde geniş bir uygulama yelpazesine sahiptir. İşte veri madenciliğinin bazı uygulama alanları:

Pazarlama ve Müşteri İlişkileri Yönetimi: Veri madenciliği, müşteri davranışlarını analiz ederek pazarlama stratejilerini optimize etmeye yardımcı olur. Müşteri segmentasyonu, müşteri tercihlerini anlama, kişiselleştirilmiş pazarlama ve müşteri sadakati gibi alanlarda veri madenciliği kullanılır.

Sağlık Hizmetleri: Sağlık sektörü, büyük miktarda veriye sahiptir ve veri madenciliği, hastalık teşhisi, tedavi planlaması, epidemiyoloji ve sağlık hizmetlerinin maliyet etkinliği gibi konularda yardımcı olabilir.

Finans ve Bankacılık: Finansal kurumlar, veri madenciliğini risk analizi, kredi değerlendirmesi, dolandırıcılık tespiti ve portföy yönetimi gibi alanlarda kullanır. Veri madenciliği, piyasa trendlerini analiz etmek ve yatırım kararlarına rehberlik etmek için de kullanılabilir.

Telekomünikasyon: Telekomünikasyon şirketleri, müşteri hizmetleri iyileştirmesi, ağ yönetimi ve kapasite planlaması gibi alanlarda veri madenciliğini kullanır.

Veri madenciliği, günümüzdeki veri patlamasında değerli bilgileri ortaya çıkarmak için önemli bir araçtır. Sektörler arasında verimlilik, karar verme süreçleri, hizmet kalitesi ve müşteri memnuniyeti gibi birçok alanda büyük faydalar sağlar. Veri madenciliği, doğru algoritmalar ve analitik yöntemler kullanılarak, büyük veri kaynaklarından anlamlı bilgilerin çıkarılmasını sağlar. Ancak, veri gizliliği, etik ve yasal konuların da dikkate alınması gerektiği unutulmamalıdır. Veri madenciliği, gelecekte de büyük öneme sahip olmaya devam edecek ve iş dünyasında inovasyon ve rekabet avantajı sağlamak için kullanılmaya devam edecektir.

Sağlık konulu yorumların tarih ve saat analizi üzerine odaklanan bu veri madenciliği projesi, sağlıkla ilgili konularda etkileşimlerin zamanına dair bilgiler elde etmeyi hedeflemektedir. Proje, Python programlama dili kullanılarak geliştirilmiş olup "Faker" ve "csv" kütüphaneleri projede kullanılmıştır. Veri seti oluşturulurken sağlık konulu yorumlara odaklanılmış ve her yorum için rastgele tarih-saat, beğeni sayısı, retweet sayısı ve konum bilgileri eklenmiştir. Bu veriler, belirtilen formatta bir CSV dosyasına kaydedilmiştir.

Projenin temel amacı, sağlık konulu yorumların tarih ve saat bilgilerini analiz etmek ve bu analiz sonuçlarından en çok yorum yapılan saatleri ve günleri belirleyerek etkili bir yayın stratejisi oluşturabilmektir. Bu amaç doğrultusunda, "datetime" kütüphanesi kullanılarak yorumlardaki tarih ve saat bilgileri çıkarılmıştır. Ardından, elde edilen veriler kullanılarak bir saat ve gün dağılımı grafiği oluşturulmuştur. Bu grafikler, sağlık konulu yorumların hangi saatlerde ve günlerde daha fazla etkileşim aldığını görsel olarak göstermektedir.

Proje sonucunda elde edilen verilerle, en çok yorum yapılan saatler ve günler belirlenmiştir. Bu bilgiler, sağlıkla ilgili içeriklerin yayınlanma zamanlamasını optimize etmek için kullanılabilir. Örneğin, en yoğun saatlerde veya en aktif günlerde daha fazla içerik paylaşmak, kullanıcıların daha fazla etkileşimde bulunmasını sağlayabilir. Ayrıca, analiz sonuçlarına dayanarak hedef kitleye daha uygun içerikler sunulabilir, böylece etkileşim ve katılım seviyeleri artırılabilir.

Bu projenin sağlık konulu yorumlara odaklanması, sağlıkla ilgilenen kurumlar, sağlık danışmanları veya sağlık bilgisi arayan bireyler için önemli bir strateji rehberi sunabilir. Analiz sonuçları, sağlıkla ilgili içerik üretenlerin, hedef kitlelerini daha etkili bir şekilde bilgilendirebilmelerine yardımcı olabilir. Ayrıca, sağlıkla ilgili konulara ilgi duyan bireyler için de değerli bir kaynak olabilir.

Bu veri madenciliği projesi, sağlık konulu yorumlar üzerindeki tarih ve saat analiziyle sınırlı kalmayıp, ilgili konulara daha geniş bir bakış açısı sunabilir. Örneğin, benzer bir yaklaşımla farklı konular üzerinde yapıabilecekleri veri madenciliği projeleri geliştirilebilir. Örneğin, sağlık konulu yorumlarla birlikte demografik verileri de analiz ederek, belirli yaş gruplarının veya coğrafi bölgelerin sağlıkla ilgili konulara nasıl tepki verdiğini incelemek mümkündür. Ayrıca, yorumlardaki duygu ve hissiyatı analiz etmek, kullanıcıların sağlıkla ilgili konulara nasıl yaklaştığını ve hangi konuların daha fazla ilgi çektiğini anlamak için farklı veri madenciliği yöntemleri kullanılabilir.

Bu projenin yanı sıra, veri madenciliği teknikleri kullanarak sağlıkla ilgili başka konulara da odaklanılabilir. Örneğin, hastalık teşhisinde kullanılan semptom verileri üzerinde analizler yaparak erken teşhis yöntemlerini geliştirebilir veya sağlık hizmetlerinin verimliliğini artırmak için hasta tedavi verilerini değerlendirebiliriz. Ayrıca, genetik verilerin analiziyle kişiselleştirilmiş sağlık önerileri sunan bir sistem geliştirebilir veya sağlık hizmetlerinde kullanılan büyük veri kümeleri üzerinde analizler yaparak sağlık trendlerini belirleyebiliriz.

Veri madenciliği, sağlık alanında pek çok faydalı bilgi elde etmek için kullanılabilecek güçlü bir araçtır. Önemli olan, doğru veri setlerini toplamak, uygun analiz yöntemlerini seçmek ve sonuçları anlamlı bir şekilde yorumlamaktır. Veri madenciliği projeleri, sağlıkla ilgilenen kurumlar ve sağlık profesyonelleri için daha iyi kararlar almak, daha etkili stratejiler oluşturmak ve daha iyi sağlık hizmetleri sunmak için değerli bir kaynak olabilir.



Şekil 1. Sağlık ve veri madenciliğini anlatan görsel

Sonuç olarak, bu proje sağlık konulu yorumların tarih ve saat analizi üzerine odaklanan bir veri madenciliği uygulamasıdır. Ancak veri madenciliği, sağlık alanında çok daha geniş bir uygulama alanına sahiptir ve doğru şekilde kullanıldığında sağlık hizmetlerinin kalitesini artırabilir ve sağlıkla ilgili kararların alınmasında önemli bir rol oynayabilir.

Veri madenciliği, sağlık alanında kullanıldığında önemli faydalar sağlayabilir. Örneğin, sağlık konulu forumlardaki kullanıcı yorumlarını analiz ederek belirli hastalıkların semptomlarını veya tedavi yöntemlerini daha iyi anlayabiliriz. Bu bilgi, hastaların daha iyi bilgilendirilmesine ve doğru sağlık kararları almasına yardımcı olabilir.

Ayrıca, genetik verilerin analiziyle bireylerin genetik predispozisyonlarını anlamak ve kişiselleştirilmiş sağlık önerileri sunmak mümkündür. Veri madenciliği algoritmaları, büyük miktarda genetik veriyi analiz ederek hastalık riskini tahmin edebilir ve bireylere uygun önlemler alması konusunda rehberlik edebilir.

Sağlık hizmetlerinin verimliliğini artırmak için de veri madenciliği kullanılabilir. Hastane kayıtları, laboratuvar sonuçları ve diğer klinik verilerin analiziyle, tedavi süreçlerinin iyileştirilmesi, yan etkilerin azaltılması ve daha iyi sonuçların elde edilmesi hedeflenebilir. Örneğin, hastaların tedaviye uyumunu değerlendirmek ve iyileşme süreçlerini takip etmek için veri madenciliği teknikleri kullanılabilir.

Veri madenciliği aynı zamanda epidemiyolojik araştırmalarda da büyük bir rol oynar. Salgın hastalıkların yayılma modellerini analiz etmek, risk gruplarını belirlemek ve erken uyarı sistemleri oluşturmak için veri madenciliği kullanılabilir. Bu şekilde, sağlık hizmetleri daha iyi planlanabilir ve salgın hastalıklara müdahale daha etkin hale getirilebilir.

Veri madenciliği, sağlık alanında daha fazla bilgi ve anlayış elde etmek için güçlü bir araçtır. Ancak bu projelerin başarılı olabilmesi için veri gizliliği ve güvenliği konularına dikkat edilmelidir. Hassas sağlık verileriyle çalışırken, gizlilik önlemlerinin alınması ve etik kurallara uyulması büyük önem taşır.

Veri madenciliği sağlık alanında çeşitli uygulamalara sahip olan önemli bir disiplindir. Sağlıkla ilgili verilerin analizi, hastalıkların önlenmesi, tedavilerin iyileştirilmesi ve sağlık hizmetlerinin daha etkin hale getirilmesi gibi konularda değerli bilgiler sunabilir. Ancak bu projelerin gerçek dünyada uygulanması için multidisipliner bir yaklaşım ve etik değerlere uygun hareket etmek gereklidir.

Bu proje sağlık konulu yorumların tarih ve saat analizi üzerine bir veri madenciliği çalışması olarak başarılı bir şekilde tamamlanmıştır. Veri seti üzerinde yapılan analizler sayesinde en çok yorum yapılan saatler ve günler belirlenmiş ve bu bilgiler sağlıkla ilgili içeriklerin yayın stratejileri için önemli bir rehber oluşturmuştur.

Bu projenin sağladığı sonuçlar, sağlıkla ilgili kurumlar, blog yazarları veya sosyal medya hesapları için değerli bir kaynak niteliğindedir. En yoğun saatlerde veya en aktif günlerde içerik paylaşarak hedef kitleyle daha fazla etkileşim sağlama imkanı elde edilebilir. Bu da sağlık bilincini artırma, doğru bilgilendirme ve sağlık hizmetlerine erişimi kolaylaştırma açısından büyük önem taşır.

Ayrıca, bu projenin sağlık alanında veri madenciliği uygulamalarını örneklemesi önemlidir. Veri madenciliği teknikleri, sağlık verileri üzerinde yapılan analizlerle hastalıkların önlenmesi, tedavilerin iyileştirilmesi ve sağlık hizmetlerinin daha etkin hale getirilmesi gibi konularda önemli bir rol oynar. Büyük veri kümeleri üzerinde yapılan analizler sayesinde trendler, desenler ve ilişkiler ortaya çıkarılarak sağlık sektöründe daha bilinçli kararlar alınabilir.

Ancak, veri madenciliği projelerinin gerçek dünyada uygulanmasıyla ilgili bazı zorluklar vardır. Özellikle sağlık verileri hassas nitelikte olduğundan, gizlilik ve güvenlik konularına büyük önem verilmelidir. Veri gizliliğini korumak ve etik kurallara uygun hareket etmek, bu tür projelerin başarısı için kritik öneme sahiptir. Ayrıca, doğru ve temsilci veri setlerinin kullanılması, analiz sonuçlarının doğru bir şekilde yorumlanması ve değerlendirilmesi de önemli hususlardır.

Bu örnek projede, Python programlama dili kullanılarak sağlıkla ilgili yorumların tarih ve saat analizi yapılmıştır. Projede “Faker” ve “csv” kütüphaneleri kullanılmıştır. Proje aşağıdaki adımları takip eder:

1. Sağlık konulu yorumları içeren bir liste oluşturulur.
2. Sağlık konulu yorumlara rastgele tarih-saat, beğeni sayısı, retweet sayısı ve konum bilgileri eklenerek bir veri seti oluşturulur.
3. Oluşturulan veri seti CSV dosyasına kaydedilir.
4. “datetime” kütüphanesi kullanılarak yorumlardaki tarih ve saat bilgileri çıkarılır.
5. Elde edilen tarih ve saat verileri kullanılarak bir saat ve gün dağılımı grafiği oluşturulur.
6. Grafikler, sağlık konulu yorumların hangi saatlerde ve günlerde daha fazla etkileşim aldığını görsel olarak gösterir.
7. En çok yorum yapılan saatler ve günler belirlenir.
8. Analiz sonuçları, sağlıkla ilgili içeriklerin yayın stratejisi oluşturulmasında kullanılabilir.

Bu projenin sağladığı analiz sonuçları, sağlıkla ilgili içerik üreten kurumlar veya bireyler için etkili bir yayın stratejisi oluşturmak için kullanılabilir. Ayrıca, analiz sonuçlarına dayanarak hedef kitleye daha uygun içerikler sunulabilir ve etkileşim seviyeleri artırılabilir. Proje ayrıca sağlıkla ilgilenen kurumlar, sağlık danışmanları veya sağlık bilgisi arayan bireyler için önemli bir strateji rehberi sunabilir.

**Projenin Aşamaları:**

1. İş Anlayışı

• Projenin amacı: Sağlık konulu yorumlar içeren bir veri seti oluşturmak ve bu veri setini kullanarak, hangi saatlerde ve hangi günlerde en çok yorum yapıldığını analiz etmek.

• Veri kaynakları: Sağlık konulu yorumlar içeren bir veri seti

• Proje kapsamı: Veri setini oluşturmak, veri setini analiz etmek ve sonuçları raporlamak.

1. Veri Anlama

• Veri seti: health\_comments.csv

• Veri setinin boyutu: 500 yorum

• Veri setindeki sütunlar: Kullanıcı Adı, Yorum, Tarih/Saat, Beğeni Sayısı, Retweet Sayısı, Konum

• Veri setindeki tarih/saat sütununun formatı: YYYY-MM-DD HH:MM:SS

1. Veri Hazırlama

• Veri setinin ön işleme adımları: Veri seti içindeki gereksiz sütunların çıkarılması

• Veri setindeki eksik değerlerin kontrolü: Eksik değer yoktur.

1. Modelleme

• Veri setinde hangi saatlerde ve hangi günlerde en çok yorum yapıldığı analiz edilir.

• Hangi saatlerde en çok yorum yapıldığını belirlemek için, her saatte yapılan yorum sayısı hesaplanır ve en yüksek olan saat belirlenir.

• Hangi günlerde en çok yorum yapıldığını belirlemek için, her gün yapılan yorum sayısı hesaplanır ve en yüksek olan gün belirlenir.

5. Değerlendirme

• En çok yorum yapılan saat ve gün raporlanır.

6. Dağıtım

• Analiz sonuçları raporlanır ve paylaşılır.

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Şekil 1.1 Veri madenciliği Aşamaları

**Projede Bulunan Algoritma Yapıları:**

1. **K-means Kümeleme:** K-means algoritması, verileri belirli bir sayıda kümeye gruplandırır. Tarih ve saat bilgilerini kullanarak yorumları farklı saatlere veya günler arasındaki benzerliklere dayalı olarak gruplandırabilirsiniz. Bu şekilde, yoğun saatler veya günler belirlenebilir. Örneğin, yorumların saatine veya gününe göre farklı renklere veya etiketlere sahip kümeler oluşturabilirsiniz.
2. **Decision Trees (Karar Ağaçları):** Decision Trees, ağaç benzeri bir yapı kullanarak verileri sınıflandıran bir algoritmadır. Tarih ve saat bilgilerini kullanarak yorumları saat veya gün özelliklerine göre sınıflandırabilirsiniz. Bu sayede en çok yorum yapılan saat veya günler belirlenebilir. Örneğin, saatlere göre ağacın dallarını oluşturabilir ve her dalın sonunda en çok yorum yapılan saatleri temsil eden yapraklara ulaşabilirsiniz.
3. **Support Vector Machines (Destek Vektör Makineleri):** Support Vector Machines (SVM), verileri belirli sınıflara ayırmak için optimal bir hiper düzlem bulmaya çalışır. Tarih ve saat bilgilerini kullanarak yorumları saat veya gün özelliklerine göre sınıflandırabilirsiniz. SVM, farklı saat veya günlerde yapılan yorumları ayırmak için bir hiper düzlem oluşturabilir.
4. **Random Forests:** Random Forests, birçok karar ağacının bir araya gelerek oluşturduğu bir ansambldır. Tarih ve saat bilgilerini kullanarak yorumları saat veya gün özelliklerine göre sınıflandırabilirsiniz. Random Forests, birden çok karar ağacının sonuçlarını birleştirerek daha doğru sonuçlar elde etmenizi sağlar.
5. **Naive Bayes:** Naive Bayes, Bayes teoremine dayalı bir olasılık sınıflandırma algoritmasıdır. Tarih ve saat bilgilerini kullanarak yorumları saat veya gün özelliklerine göre sınıflandırabilirsiniz. Naive Bayes algoritması, farklı saat veya günlerde yapılan yorumları olasılıklara dayalı olarak sınıflandırır.

## Projenin Yöntemi

1. **Proje Planlama:** Proje yönetimi sürecinin başlangıcında, projenin amacı ve hedefleri belirlenir. Veri madenciliği projelerinde, genellikle bir analiz planı oluşturulur. Bu plan, veri toplama yöntemlerini, kullanılacak analiz tekniklerini ve projenin zaman çizelgesini içerir.
2. **Veri Toplama ve Hazırlama:** Projede kullanılacak verilerin toplanması ve hazırlanması gerekmektedir. Sağlık konulu yorumlara odaklanan bu projede, sağlıkla ilgili yorumları içeren bir veri seti oluşturulmuştur. Bu veri seti, rastgele tarih-saat, beğeni sayısı, retweet sayısı ve konum bilgileriyle birlikte sağlık konulu yorumları içermektedir.
3. **Veri Analizi:** Veri setinin analizi, projenin temel hedeflerinden biridir. Python programlama dili ve ilgili kütüphaneler kullanılarak veri analizi gerçekleştirilir. Bu projede, "datetime" kütüphanesi kullanılarak yorumlardaki tarih ve saat bilgileri çıkarılmış ve en çok yorum yapılan saatler ve günler belirlenmiştir.
4. **Sonuçların Değerlendirilmesi:** Veri analizi sonuçları, proje hedeflerine ulaşmak için önemli bir bileşendir. En çok yorum yapılan saatler ve günler gibi veriler, sağlıkla ilgili içeriklerin yayın stratejileri ve etkileşimlerin artırılması için kullanılabilir. Bu bilgiler, projenin yönetimi sürecinde değerlendirilir ve ilgili stratejilerin geliştirilmesine yardımcı olur.
5. **Proje Raporlama ve Sunum:** Projenin yönetimi sürecinin bir parçası olarak, proje sonuçlarının raporlanması ve sunumu yapılır. Bu rapor ve sunum, proje hedeflerini, yöntemleri, analiz sonuçlarını ve elde edilen bulguları içerir. Proje ekibi, paydaşlara veya ilgili kişilere projenin sonuçlarını ve potansiyel stratejileri sunarak projenin değerini iletebilir.
6. **Proje İlerlemesinin İzlenmesi:** Proje yönetimi süreci, projenin ilerlemesini izlemeyi ve gerektiğinde ayarlama yapmayı içerir. Proje ekibi, projenin zaman çizelgesine ve hedeflere uygun şekilde ilerlediğini düzenli olarak değerlendirir. Veri analizi ve sonuçların değerlendirilmesi aşamalarında ortaya çıkan bulgular projenin hedeflerine ulaşılması için rehberlik eder. Gerekirse, proje planında veya stratejisinde değişiklikler yapılır ve uygun önlemler alınır.
7. **Risk Yönetimi:** Proje yönetimi sürecinde, olası riskler ve engeller belirlenir ve bunların yönetimi için önlemler alınır. Örneğin, veri toplama veya analiz aşamalarında beklenmedik sorunlar ortaya çıkabilir. Bu durumda, proje ekibi alternatif planlar oluşturur veya uygun çözümleri uygular.
8. **Ekip İşbirliği:** Projeler genellikle bir ekip tarafından yürütülür ve bu nedenle etkili ekip işbirliği önemlidir. Proje yönetimi süreci, ekip üyeleri arasındaki iletişimi ve işbirliğini sağlamak için düzenli toplantılar, görev dağılımı ve bilgi paylaşımını içerir. Ekip üyeleri, proje hedeflerine ulaşmak için birlikte çalışır ve ilerlemenin izlenmesi için birbirleriyle etkileşimde bulunur.
9. **Proje Tamamlama ve Sunum:** Proje tamamlandığında, proje sonuçları ve bulguları raporlanır ve ilgili paydaşlara veya hedef kitlelere sunulur. Projenin başarıları, karşılaşılan zorluklar ve elde edilen öğrenimler değerlendirilir. Proje sunumu, projenin amacını, yöntemlerini, bulgularını ve önerilen stratejileri içerir.
10. **Proje Değerlendirmesi:** Proje tamamlandıktan sonra bir değerlendirme yapılır. Projenin başarısı, hedeflerin ne ölçüde gerçekleştirildiği, planlama ve yönetim sürecinin etkinliği ve proje ekibinin performansı değerlendirilir. Bu değerlendirme, gelecekteki projeler için öğrenilen dersleri ve iyileştirme fırsatlarını belirlemeye yardımcı olur.

## Proje Kısıtları

1. **Veri setinin sınırlamaları:** Proje için kullanılan veri seti, sağlık konulu yorumlara odaklanarak oluşturulmuş olsa da, veri setinin boyutu veya çeşitliliği sınırlı olabilir. Bu durum, elde edilen sonuçların genellemesi veya genel geçerliliği üzerinde etkili olabilir.
2. **Veri gizliliği ve etik konuları:** Proje, kullanıcıların sağlık konulu yorumlarını analiz ettiği için veri gizliliği ve etik konuları büyük önem taşır. Sağlık verileri hassas nitelikte olduğundan, bu verilerin doğru bir şekilde korunması ve gizlilik önlemlerinin alınması gerekmektedir. Ayrıca, veri madenciliği projelerinde etik kurallara uyulması ve kullanıcıların rızası alınması da önemlidir.
3. **Veri setinin temsilciliği:** Kullanılan veri seti, belirli bir platform veya kaynaktan elde edilmiş olabilir. Bu durum, sağlıkla ilgili yorumların genel nüfusun tümünü temsil etmeyebileceği anlamına gelir. Örneğin, sadece belirli bir sosyal medya platformundaki yorumlara odaklanıldıysa, diğer platformlardaki etkileşimler veya farklı demografik gruplardan gelen yorumlar dikkate alınmamış olabilir.
4. **Kullanılan araçların sınırlamaları:** Projede Python programlama dili ve belirli kütüphaneler kullanılmıştır. Ancak, kullanılan araçların sınırlamaları veya yetenekleri projenin kapsamını etkileyebilir. Örneğin, analiz için kullanılan kütüphanelerin bazı özellikleri eksik olabilir veya veri setinin boyutuyla başa çıkma konusunda sınırlamaları olabilir.
5. **Zaman kısıtları:** Projenin belirli bir süre içinde tamamlanması gerekebilir ve bu durumda daha kapsamlı analizler veya daha fazla veri toplama imkanı olmayabilir. Bu zaman kısıtları, projenin sonuçlarının tam kapsamlı veya eksiksiz olmasını engelleyebilir.
6. **Sonuçların yorumlanması:** Elde edilen sonuçların doğru bir şekilde yorumlanması önemlidir. Analiz sonuçlarının istatistiksel olarak anlamlı olup olmadığı, hangi faktörlerin sonuçları etkilediği gibi konular dikkate alınmalıdır. Ayrıca, sadece tarih ve saat analizi üzerine odaklandığı için, diğer faktörlerin (örneğin, içerik, kullanıcı profilleri, trendler) etkilerinin dikkate alınmamış olabileceği unutulmamalıdır. Bu durum sonuçların tam anlamıyla açıklanmasını veya öngörü yapılmasını zorlaştırabilir

## Literatür çalışması

Veri madenciliği, sağlık alanında bilgi ve anlayış elde etmek için kullanılan önemli bir araçtır. Sağlıkla ilgili yorumların tarih ve saat analizi ise, bu alanda yapılan çalışmalar arasında henüz tam anlamıyla bir literatür oluşturulmamış bir konudur. Bu durum, sağlık konulu yorumların tarih ve saat analizi üzerine yapılan araştırmaların henüz sınırlı olduğunu göstermektedir.

Sağlık konularıyla ilgili yorumlar, sosyal medya platformları, sağlık forumları, bloglar veya haber siteleri gibi çeşitli dijital platformlarda yayınlanmaktadır. Bu yorumlar, kullanıcıların deneyimlerini, görüşlerini veya sorularını içerebilir. Yorumlar, sağlıkla ilgili konular hakkında geniş bir veri kaynağı sağlamaktadır ve bu veri kaynağı, sağlık hizmetlerinin iyileştirilmesi ve sağlıkla ilgili kararların alınmasında değerli bilgiler sunabilir.

Ancak, sağlık konulu yorumların tarih ve saat analizi konusunda yapılan araştırmaların sayısı oldukça sınırlıdır. Bu alanda literatürde henüz kapsamlı bir çalışma bulunmamaktadır.

# MATERYAL VE YÖNTEM

Sağlık konusu günümüzde oldukça önemli bir konu haline gelmiştir. İnsanlar sağlıklarını korumak ve sağlıklı yaşamak için birçok bilgi ve kaynağa ulaşmaktadır. Bu bağlamda, sağlık yorumlarını analiz etmek ve sağlık hakkında daha fazla bilgi edinmek için programlama araçları kullanılmaktadır. Bu yazıda, sağlık yorumlarının analizinde kullanılan bazı önemli programlama araçlarına odaklanacağız.

**Faker:** Sağlık yorumlarının analizi için veri seti oluşturma aşamasında kullanılan Faker, sahte veriler oluşturmak için kullanılan bir Python kütüphanesidir. Faker, kullanıcı adları, tarih/saat bilgileri, beğeni sayıları, retweet sayıları gibi sahte veriler üretmek için kullanılmıştır. Bu sayede, gerçek dünya verisini taklit ederek sağlık yorumlarının analizi için uygun bir veri seti oluşturulmuştur.

**DateTime:** DateTime modülü, Python programında tarih ve saat bilgileriyle çalışmayı sağlayan bir modüldür. Sağlık yorumlarının analizi sırasında, yorumların tarih ve saat bilgileri incelenmiştir. DateTime modülü, veri setindeki tarih ve saat bilgilerini doğru bir şekilde işlemek ve analiz etmek için kullanılmıştır. Örneğin, yorumların saat bazında dağılımını incelemek ve en çok yorum yapılan saatleri belirlemek için DateTime modülü kullanılmıştır.

**CSV:** CSV (Comma-Separated Values), virgülle ayrılmış değerler anlamına gelen bir dosya formatıdır. Sağlık yorumları analizi için kullanılan veri seti CSV formatında saklanmıştır. CSV modülü, Python programında CSV dosyalarını okumak ve yazmak için kullanılan bir modüldür. Veri seti oluşturulurken Faker ile oluşturulan sahte veriler CSV formatında bir dosyaya yazılmış ve analiz aşamasında bu CSV dosyası okunmuştur. CSV modülü, veri setinin okunmasını ve analiz edilmesini sağlamıştır.

**Matplotlib:** Matplotlib, Python programında görselleştirme yapmak için kullanılan popüler bir kütüphanedir. Sağlık yorumları analizi sırasında, verilerin görselleştirilmesi amacıyla Matplotlib kullanılmıştır. Örneğin, yorumların saat bazında dağılımını göstermek için bir histogram çizilmiş, gün bazında yorum sayısını göstermek için bir pasta grafiği çizilmiş ve beğeni sayısı ile retweet sayısı arasındaki ilişkiyi göstermek için bir saçılma grafiği çizilmiştir. Matplotlib, verileri grafiklere dönüştürmek ve analiz sonuçlarını daha anlaşılır bir şekilde sunmak için etkili bir araç olmuştur.

**Pandas:** Pandas, Python programında veri analizi yapmak için kullanılan bir kütüphanedir. Sağlık yorumları analizi sırasında, veri setinin okunması, filtrelenmesi ve manipüle edilmesi için Pandas kullanılmıştır. Pandas, veri setindeki tarih/saat bilgilerinin işlenmesi, yorum sayılarının hesaplanması ve diğer veri manipülasyon işlemlerinin gerçekleştirilmesi için kullanılmıştır.

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Şekil 2. Kullanılan kütüphaneler

**Sonuç:** Sağlık yorumları analizi için kullanılan programlama araçları, sağlık hakkında daha fazla bilgi edinmek ve yorumları daha iyi anlamak için önemli bir rol oynamaktadır. Faker, veri setinin oluşturulmasında sahte veriler üretmek için kullanılan bir araçtır. DateTime, tarih ve saat bilgilerini işlemek ve analiz etmek için kullanılan bir modüldür. CSV, veri setinin saklanması ve işlenmesi için kullanılan bir dosya formatıdır. Matplotlib, verilerin görselleştirilmesi için kullanılan etkili bir görselleştirme kütüphanesidir. Pandas, veri analizi ve manipülasyon işlemleri için kullanılan bir kütüphanedir. Bu programlama araçları bir araya gelerek sağlık yorumlarının analizinde verimli bir şekilde kullanılmıştır.

## Program dilleri

Python, genel amaçlı, yüksek seviyeli bir programlama dilidir. 1991 yılında Guido van Rossum tarafından geliştirilmeye başlanan Python, basit ve anlaşılır syntax yapısıyla dikkat çeker. Hem başlangıç seviyesindeki geliştiriciler hem de deneyimli yazılım mühendisleri tarafından tercih edilen Python, çeşitli kullanım alanlarına sahip geniş bir kütüphane ekosistemiyle birlikte gelir.

**Python’un Özellikleri:**

**Okunabilir ve Kolay Syntax:**

Python’un en önemli özelliklerinden biri, okunabilir ve anlaşılır bir syntax yapısına sahip olmasıdır. Bu sayede, kodların yazılması, okunması ve bakımı kolaylaşır. Python, yalın bir dil olmasıyla bilinir ve gereksiz karmaşıklıkları ortadan kaldırarak geliştiricilerin kodlarını daha hızlı ve etkili bir şekilde yazmalarına yardımcı olur.

**Geniş Kütüphane Desteği:**

Python, birçok standart kütüphaneyle birlikte gelir. Bu kütüphaneler, çeşitli işlevleri yerine getirmek için kullanılabilir. Örneğin, veri analizi için “Pandas”, bilimsel hesaplamalar için “NumPy”, grafik çizimi için “Matplotlib” gibi kütüphaneler, Python’u daha güçlü bir hale getirir. Ayrıca, Python topluluğunun aktif katkılarıyla birlikte birçok üçüncü taraf kütüphane de bulunur.

**Çapraz Platform Desteği:**

Python, çeşitli işletim sistemlerinde çalışabilir. Windows, macOS, Linux gibi farklı platformlarda sorunsuz bir şekilde çalışır. Bu özellik, Python’u çok yönlü bir dil haline getirir ve farklı platformlarda uygulama geliştirmeyi kolaylaştırır.

**Nesne Yönelimli Programlama (OOP) Desteği:**

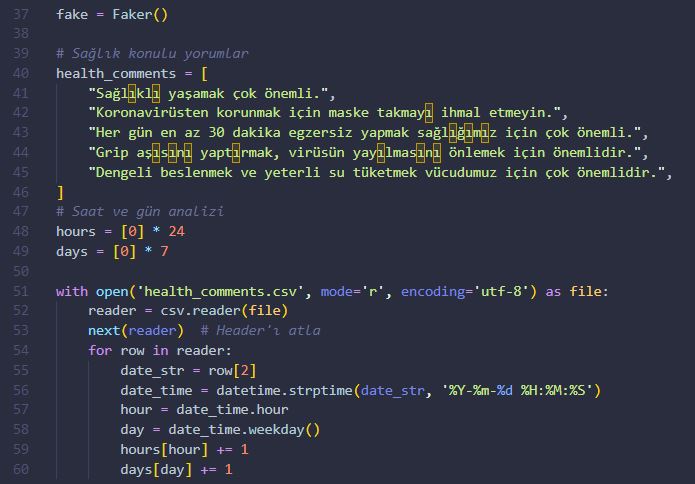
Python, nesne yönelimli programlamayı destekler. Nesne yönelimli programlama, kodun daha modüler, sürdürülebilir ve tekrar kullanılabilir olmasını sağlar. Python’un nesne yönelimli programlama yetenekleri, büyük ve karmaşık projelerin geliştirilmesini kolaylaştırır.

**Hızlı ve Verimli:**

Python, C ve C++ gibi dillerin arka planında çalışan bir yorumlayıcı kullanır. Bu, Python kodunun hızlı bir şekilde çalışmasını sağlar. Ayrıca, Python’un dinamik tip sistemi sayesinde de geliştirme süreçleri hızlanır. Yorumlama işlemi, hızlı prototipleme ve hata ayıklama aşamalarında büyük bir avantaj sağlar.

**Büyük ve Aktif Topluluk:**

Python, dünya çapında büyük ve aktif bir kullanıcı topluluğuna sahiptir. Topluluk, sorularınızı yanıtlamak, yardım etmek ve kaynakları paylaşmak için çeşitli forumlar, gruplar ve kütüphaneler aracılığıyla bir araya gelir. Bu sayede, Python ile ilgili birçok kaynak, eğitim materyali ve örnek projelere kolayca erişebilirsiniz.



Şekil 2.1. Kod parçası

**Sonuç:**

Python, genel amaçlı bir programlama dili olarak birçok avantaja sahiptir. Okunabilir syntax yapısı, geniş kütüphane desteği, çapraz platform uyumluluğu, nesne yönelimli programlama yetenekleri, hızlı ve verimli çalışması ve aktif topluluğuyla Python, geliştiricilerin projelerini daha hızlı ve daha kolay bir şekilde geliştirmelerini sağlar. Bu nedenle, veri analizi, yapay zeka, web geliştirme, bilimsel hesaplama gibi birçok farklı alanda Python tercih edilen bir dil haline gelmiştir.

## veri tabanı

Bu proje, sağlık konulu yorumların tarih ve saat analizini gerçekleştiren ve bu analizlere dayanarak çeşitli görselleştirmeler yapan bir Python programını içerir. Ayrıca, proje kapsamında sağlık konulu yorumların veri seti oluşturulur ve veri tabanı yöntemi kullanılır.

**Veri Seti Analizi:**

Projede, sağlık konulu yorumların tarih ve saat analizini gerçekleştirmek için öncelikle bir veri seti yüklenir. Bu amaçla, **health\_comments.csv** adlı bir CSV dosyası kullanılır. Veri seti, kullanıcı adı, yorum metni, tarih/saat, beğeni sayısı, retweet sayısı ve konum bilgisi gibi sütunlardan oluşur.

**Saat Bazında Yorum Sayısının Histogramı:**

İlk analiz adımı, saat bazında yorum sayısının histogramını oluşturmaktır. Bunun için **matplotlib.pyplot** kütüphanesi kullanılır. Veri setindeki "Tarih/Saat" sütunu parse edilerek saat bilgisi elde edilir ve bu bilgilere göre bir histogram çizdirilir. Histogram, saatlerin x-ekseninde ve yorum sayılarının y-ekseninde temsil edilir. Bu görselleştirme, hangi saatlerde en çok yorum yapıldığını görmek için kullanılır.

![A picture containing text, diagram, plot, screenshot

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4REERXhpZgAATU0AKgAAAAgABAE7AAIAAAATAAAISodpAAQAAAABAAAIXpydAAEAAAAmAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNhZGV0dGluIEthcmFkYXZ1dAAAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzU5AACSkgACAAAAAzU5AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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HwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kainuobfHmvhiCVQAszAdcKOT1HSluJ0tbWWeXIjiQu2BngDJrzfxxDb6rbswuZ476y3b5QMRyEZ3BTnKMvzbWPGOMkkEcuKxMMNT55eiV7XfZeZvh6Ptqig3Zd+x6JDfQTkBS6Mx2qs0bRljjPAYAnj0qxXM+GdcHi7zdRtbmCXStixrAhDkS4ViSeoKnI7g/KRjHO9Zylllid/Mkgk8tmxjPAYfjtZc++a6Iy5lcwLFFctoeoeItY1nUJWvdLi0yz1CW1+zDT5DM6pjnzfO2g5P8AzzqaLxdp9poVne6lqK3jXsjrb/YNPmLz4LcJAu+Q7QOTyOM8A4p3Vk+/6h1aOjorEsPGOg6nFBJZX3mLPeGwT9y6nzwhdoyCoKkKpznGCCDzxRfeMND01bg3l6U+z3Qs5AsEjnzjGJAgCqSxKkEYzknHXin/AF/X3r7w/r+vuNuiufvfHGg6c0YvLi5i3RJNJ/oM5FsjfdachP3A6/6zb0Poa2L64nt9NnuLK1a9njjLRW6OqGZscKGYgDPqeKNg3dixRXPeC9ev/EOj3Vxq1tb2tzb6hc2jRW0jOi+VIU+8QC3TrgZ9BXQ0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVHc3MFnay3V5NHBbwoZJZZXCpGoGSzE8AADJJrn/wDhY/gj/ocvD/8A4NIP/iqAOkoqjpWt6Vr1q11oep2epW6OY2ls7hZkVgASpKkjOCDj3FXqACiiigAooooAKK4nQrHW/EFpeX8vjHWLT/iZ30CQW0Fl5caRXcsSAb7dm+6i8kk5qzZR6rpHj7T9NufEWoataXmmXk7R3sVsux4pbZVKmKFD0mfIJI6elAHW0UUUAFFFFABRRWP4gbWrZYL/AEPF0LYsbjTSFH2tDj7jn7si4yuTtbJDYyGUA2KK48+K38WMlh4JuCpIBvtSaL/kHjvHscc3HbYw+Tq4+6r9hQAUUUUAR3ECXVrLBLkxyoUbBxwRg1jXHh3SdZjRNTsIWmil86WMAfMxznJ6lGOTjgHoR1FbtRTW0U+PMX5gCFdSVZQeuGHI6dqlxjLdDuzh7DT9a8EadYtY26Xdm0pju7GIKmws5CyRjopIK7gPlzknG5nXtbOIqssrp5ck8nmMuc44Cj8dqrn3zRDYwQEFQ7spyrTSNIVOMcFiSOPSrFKMeXqF/dS7HJeGvB9jZa1qmsaholiuqS6nPNb3zQRtP5TYCkSDLAYyMZ6VjabomveH08Naiuky6g1ha3dpdWEE8IlTzZFdZELsqN/qwCN44bjOMV6NWfq2gaNr8Uceu6TY6mkRLRreWyTBCepAYHFVslbpp+Fg6t9/+HPPNKt9W1Cxl1uz0sXElp4smvTZQTpulj8owMEdiELqWOfmC5RgGPBN6z0HXrzVJL+/0n7IJvE0eoiJp43ZLdbNYwzYONwYYIGcHOCwwx9AtraCytYrazhjt7eFAkUUSBURQMBQBwAB2FS1S0tbpb8Lf/IoW6d+t/xv/mzzPVvCFwvijX5bvRdZ1q01mRJY20/XXtI0/dLE0U0fnxgr8mdyq5IYjHAB9JghS3t44Yl2xxqEVc5wAMAU+iktFYHq7nO+C9KvNJ0/U49Qh8l59XvLmMbg26OSZmRuCeoIOOvrXRUUUdEu2n3Bu2+/6hRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHE6Ffa34ftLywl8Haxd/wDEzvp0ntp7Ly5Elu5ZUI33Ct9114IBzVmyk1XV/H2n6lc+HdQ0m0s9MvIGkvZbZt7yy2zKFEUznpC+SQB09a62igAooooAKKKKACsfxANauVgsNDxai5LC41IlT9kQY+4h+9I2cLkbVwS2cBW2KKAOPPhR/CbJf+CbcsQAL7TWl/5CA7yb3PFx33sfn6OfusnYUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBk+KfEFt4U8K6jrt6jSQ2MDSsidXI6KPqcD8a47T9V+LGp6RBrEGn+FI4bmJZ4tPkluPOCMMhTKPl3YI/hxXdaxpFlr2i3elapD51neRNFNHnGVI9ex968n1rwj4z+GXhi61bwh44nvdM0iBpv7J1mBZ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Şekil 2.2. Histogram Grafiği

**Gün Bazında Yorum Sayısının Pasta Grafiği:**

İkinci analiz adımı, gün bazında yorum sayısının pasta grafiğini oluşturmaktır. Bu analizde de yine **matplotlib.pyplot** kullanılır. “Tarih/Saat” sütunu parse edilerek gün bilgisi elde edilir ve bu bilgilere göre bir pasta grafiği çizdirilir. Pasta grafiği, günlerin yüzdelik dilimlerini temsil eder ve hangi günlerde en çok yorum yapıldığını görsel olarak gösterir.

![A picture containing text, diagram, screenshot, circle

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4REERXhpZgAATU0AKgAAAAgABAE7AAIAAAATAAAISodpAAQAAAABAAAIXpydAAEAAAAmAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNhZGV0dGluIEthcmFkYXZ1dAAAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzkxAACSkgACAAAAAzkxAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0ASUVH9oi/vfoaPtEX979DQBJRUf2iL+9+ho+0Rf3v0NAElFR/aIv736Gj7RF/e/Q0AUqKKiubmGztpLi7lSGCJS8kkjBVQDqST0FAEtFYUfjbw1N4cm16HWrR9KgbbLdLJlUOQMH0OSPzrQ0fWdO1/TI9R0a7jvLOXISaI5VsHB/UUAXaKKiubmCytZbm7mjgghQySSyMFVFAySSeAABkk9KAJaK88i+Il5eeLIbaytM2TzCFYnjYSvywJI6q2Ub5SPl8tw3Kzmz9DoAKKKKACivPbz4iXVh4nmgu7VYrGFipDkK2BuJcsTgDCMR2UI5Y/LP9k721uoby2We2ffG2cHBBBBwQQeQQQQQeQQQeaAJaTcpcoGG4AErnkA9P5H8qWqsf/IXuP+uEX/oUlAFqiisrxNqV/pHhu8vtI0yTVb2JMw2cRwZGJAH4DOT3wDQBq0V8p+A/iJ8Rh8VL5pLS81maWQjUtLH/ACyVW2nYCcIVJx6evrX1YOR6UAFFFea/F34sxfDuxhs9PhS71u8UtBC+dsS5xvYDk88Ad8H0oA9Kor5ug079oDXbYawl9NaCQb47ZpYoSR2/d4wPo2DXQ/DT4y6xL4qHg34kWv2TVS/lQ3LR+WWfsjr0yezDg8euaAPcKKKpatrGn6DpsmoazeRWdpGQHmmbCrk4HP1NAF2ivIte/aL8NaL4ifS4bG81CNfLK3dsyGNw6hgVyckYauvf4q+BYpGjl8UacjqSrK03II6igDrqK5vTPiJ4Q1rUotP0rxDY3d3MSI4Ypcs2Bk4H0BrpKAEVldA6MGVhkMDkEUtVdL/5BFn/ANcE/wDQRXl/xF8Z+LtP8Xalp3hi8sbO30nQW1ab7Rb+Y021iCoPbtQB61RXzd8Ovid8SviL4gm0qy1fS7J4bc3BkmsdwIDKMcf71dDonxH8d6Z/aWq+I4rPWdD0rU5dO1BrGApNb7Mfv1H8Sc8jr9KAPcKKq6bqVnq+mwahplxHc2lwgeKWM5VgatUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVEtzA909sk0bXEaK7xBwWVWJCkjqAdrYPfB9KAJaKiurq3sbSW6vZ4re3hUvJNM4REUdSSeAPeqCeKNAk0d9Wj1zTX02Ntj3q3cZhVsgYL52g5I4z3FAGpRWRpvi3w5rV39l0fX9Lv7jaW8m1vY5XwOp2qScVpLcwPdPbJNG1xGiu8QcFlViQpI6gHa2D3wfSgCWiiigAoorOTxDosmtNpEer2D6mn3rJblDMvGeUzu6c9OlAGjRSMwRSzkKqjJJOABVDStf0fXUkfQ9WsdSWIgSNZ3KTBCegO0nHSgDQoqJbmB7p7ZJo2uI0V3iDgsqsSFJHUA7Wwe+D6VTTxDosmtNpEer2D6mn3rJblDMvGeUzu6c9OlAGjRRRQBm6/4h0vwvo02qa5dpaWkI+Z3PLHsqjqSfQV83/EH4iT+LYEvPEXn6d4aJ32GiRPsudTweJJD/BHnv/3zk8j6D8WeFNF8T2cD67Ypef2e5uIFcnaHCnqOjD2PHFfEtvFf+MfGdvbXV4ZL3UrtIPPnJIBZgozjsOOB0A4oA6K3u4fFGn3ln4c2aHqd4gS40mJytrqKqwZfL3E7ZAQPlJ+bsQTg/QP7Pms2E3w4g0NbgLqmmySrdWcg2yRZkJBKnnHPX14r5u+IPgK++HXiCDS9QvILqWW3W4WS3DAAFmGOQOflr6O+COh2Gq+FNJ8ZahD5+vmGW1e9ZjukQSEDd2ZtoA3HnHegD1gkKpJ4A5NeOeMPF8+u3ZihL22n277kRiY2ZlLHzHyylSpjcgFk2eW5LRvHJJYeyVwHjXwX5u7VNHXZMuGkjU7d2NuCDuXBGxMHcv8Aq0G5DHDNbgHKeG/EkHhfzJBpiSXOCjTSOE8mMDBVVKoEwIWzkIP3CqRDHDLHY9XpvxKmvNUt7SbTFj82URttdiVOSDwVB4KS9QCPLO4KUuRa814QfRTerYa1YDLMFimUvG0LDIHChNuPJHRVKG2UhY/s7RWXpNv4O8P2lxHNb6XDG8TBowCdq4xtwucYG2PAxgeTDj/VR7QDbrz/AFP4mtZalc28enoYoJGTzHmAJClgW7KPuSnlgB5Z3Muy5Nr6BWNdeEtEvLt7q4sVM8h3NIsjq27jDZBGCNsZB6gxQnrFHtAPL/EniePXdss2nJZ3MRJMyyspUjk53bCMGFiSShHkBiYnhlexk8J+KZ/Dt0IJRmzJ2yRH5BGFDDuFC7RG45VAojcFY0jkjsH+L5tAtbo2Hh6xiha3f97co5VUKE/InzqFC+TgtuUL9mVVaP7O01nv+B/A/leTqusw7Su1rW0ZNu3G3a7LtXGNke1Nq48uMlU8uGG2APQgdygjOCM8jFVo/wDkL3H/AFwi/wDQpKtVVj/5C9x/1wi/9CkoA574j+Orf4feEZdYntpLqVmEVvEoO1pCDjcf4V4/wrxjwb+0sdP0mdPGNrealfSXTypJbrGqRxkDCAZHQ7vwI5r6H1XSrLW9LuNO1W2jurS4QpLFIMhh/j79q4jw/wDDrwd8OPDN4NV+xT2QuWuDd6nDHmFW2qqFiOgwPqTQB8/eCPilpvhb4q674qurC6mttS8/y4Yyu9N8ocZycdBius1L9pa4bxxYX+k2lwuhJAIruwuAm52LEl1YdCBtxzjg+tZnw1v/AAlD8cfEk2szaUukSm4Fo1yE8lszLs2Z4+7nGO1e26l8H/DGq+OLDxFPaQrFZQCNdPihVIZHDFhIwHXGenfA+lAHZ6bqEGraXa6hab/Iuolmj8xCrbWGRkHoea+eNVji1D9sWCHXAGgjkj+zLJ90lYAyD/vvn619IgYGBXkPxp+FV/4qntfE3hJ/L16wUAxq2wzqpypVuzqenr+AoA9er5x/aXit7Xxh4WvbDCaqytuKcMQrqYz+ZbFMt/jn8R9HtRpmseDzcalGNgmktpUZj6lAME/TFcVrcvjTT/F+k+P/AIiaHcXFu10jJFMvlrhDlUC9U9QD1wevNAH2HEXMKGQYcqNw9DVDX7vRrLRpZ/EslpHpylfMa8CmMHPGd3HXFReF/FGl+MNAg1fQ7gTW0w5HRo27ow7EVL4guNFttGll8TPZppwK+Y17t8rOeM7uOuKAPHdd8O/BHxB4hk1i78S2sM0hTdFbX6RxDaoUALjgYUdK1PFnxL+GHhy3tbi30jTtdFy7qzWFvDJsKgE7iccndTPFfxB+FPhiG1lg0XTNaS5Z13aZbW8gjKgHDEkYPzCqOpR/B/4h+HdKvNSvbbw4MSSx2qzQ2svLbDvUZB5Tg0Adf4J8XeAPEKabdaRa6bpup3gdre0eGJLkYLKSAv8Aut0PSvQq888DD4Z6SunaN4Y1TSb69g3rbSGaOW5bJZjhhz3bp2r0OgCrpf8AyCLP/rgn/oIry/XdIPiD41+INHEvkG/8HtbiUjOzfLjOO/WvUNL/AOQRZ/8AXBP/AEEV5F43up7L4neLrqzleG4h8DyvHIhwyMJCQQexoAyfBvwP8b+BNYl1LQPEejrcSwmBvOt3cbSQen1UV6Z8PfB194W0jVItdvLfULzVL+W9uGhi2x5fGVAPbj9a5Xwv8JNK1fwlpOo3mt+I/tF3ZxTybdUcDcyAnA9Mms/xd4Kg8CX3hfUdD1rXWmn1+0tZFudQeRGjdjuBX3xigDovg5Glmni/TrZfLs7PxFcx28I+7EnHyr6D2r0mvOfhPxqXjr/sZrn+lejUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGP4rfUYfDF5c6LeR2l5ap9oRpQvluE+Yo5YHCsAQSMEZzniuW0fxfdan4JXxTceJNH0W21O6JsxqcaPDbxDKiLKyxkynaWOXODkAcV2Gu6Jb+IdMOn3zyi1eRGmjjIAmVWDeW2QfkOMEDGRxnk0ml6HbaPdahLZPIsd/P9oe3JHlxyEAMyADI3YBPJ5yeMnIuv9f1/wPMO39f1/XYxfDPiH+19Sktx4y8Na3iEt9n0iHbKnIG8n7RJ8ozj7vUjnscrwXo8ei/FHxZBHc3V3JJaWMs1xdy+ZJK5M2STwBwAAFAAAAAFeg1m2uhW1p4j1DWo3lNzfwwwyoxGxVi37doxnPznOSe3SmHRr+t0c78Qf32o+EbKYBrW51yPz0Yja+yOR0BB6/Oqn6gUWQNv8bNVjt12w3OiW89xtwAZVlkRWI9dgxn0Ue1bep+G4dY0k2Wo3t3K63H2m3uwUSa2kDbkKFVA+XoMg5HDbsnLNL8LwabJqFzLf3l/f6gqpPfXRj83YoIVVCIqKBknAUckk5qVdL7396SG9fwX3O5ieAov7evNV8Z3PzS6lM9tYNnPk2cTFUA7DcwZz65HpVXwXo8ei/FHxZBHc3V3JJaWMs1xdy+ZJK5M2STwBwAAFAAAAAFdjoWjW/h7w/Y6RZNI9vZQrDG0pBdgoxkkADP4Cm2uhW1p4j1DWo3lNzfwwwyoxGxVi37doxnPznOSe3Sq0TsvT+vXd+YtWnfr/mvyRl+ONVv9A02z1mzmK2dldxtqUQRW8y2b5WOTyNpYPwRwpqi3iC+uNU8RX0et2Ol6NpnlWUM9/CGt/tAIaWRjuQkfOsY+cDcD1rd8UCWXw7dWsGjy6ubuNoGto3jQYZSMsZGUbexxk88A1H4O8Or4V8I6fo/medLbxfv5sk+bKfmd8nnliTzSXX+v6tb735A+n9bfq/yRhaV4ra91BYI/HfhLVmZHK2enQbZ5SFJ+U/an6YyflPAPTrXKBAn7O+ialAobUFubS+SUEbzcvdLubP8AeO9gT6EivY65WH4f6fDPCn2/UH0u3u/tkOkM8f2aOXJYEfJ5hUOdwQuVBxxgABrf7vwd/wCvQHt/X9f8OU/izcXUHghI7OLzjc6jaQSQ+Z5YlRplBQtg7Q33ScHgng02ya4sfidbW+vpYXGqX2lS/Z7/AE+CS32RxyIWidGkcPyylW4x8wwM10mo6BbaxYX1jq8s15aXbBhC+1fIxjHlsihhhhuBJJB6HoKh0vw2un6kdRvdTvdWvhCYI7i9EQaKMkEqoiRF5IBJIJOBzwKUdPx/FW/MJarT+tb/AJf125bwdpUOg/E3xdH9rurotZWM891eS+ZJIx8/LE8ADAAAUAAAAAVytqlwvgDRrx4QnhuHW49Rj1XOb5ka4JV3i6LkvgyCRm2HPl8kD1q20G1tvEWoayjytcahDDDKjEFAsW/bgYzk7znJPbpWLD8O9Ohigsv7R1J9Ft5xPFo7SR/ZlYNuUZ2eYUDfMELleAMYAFNfEn2t+Dv/AMMEtb+f+Vv8zraKKKQDZEWWNo3GVYFSPY15jpf7P3g3SNctdVs21EXFpcLcRBrgFdytuGfl5GRXqFFAHC+NvhD4b8fazFqeuNei4igEC+RMFXaCT0wecsa6Lwt4Y0/wf4ct9F0cS/ZLfcU819zEsxY5P1NbFFABRRRQBgt4M0d9eTVWgJlQ7hFn92XG3axHcr5aY7fJGTnyofL3qKKACiiigDAXwXpA14aq0TNKG3iJjlN/y4bHfGxCP9yPOfKh8vfoooAKhWFlvpZiRteNEA75BYn/ANCFTUUAFVNU0uy1vS7jTtVtkubS5QpLFIMhh/nv2q3RQB4p4V/Zy0rQ/HE+qandLqOmQOHsLN15z1/e9m29gOvU+le10UUAFFFFABVLV9IsNe0m40zVrZLq0uE2SROOCP6H0PartFAHD/Dj4X2Hw3OqDTdQurtL+RWCTYAiVc4Ax1PzcnvgV2F9YWep2jWuo2sN1bvgtFNGHU4ORkHirFFAHA+LPgx4R8WRWsc1o2mrbFio04JCHLYzuG0g/dFaWifDLwnomh2umLo9repaqVSa9gSWUgsW5Yj1Y11lFAGRZ+E/D2nXaXVhoenW1xH9yWG1RGXjHBAyK16KKAIbOFrexghcgtHGqEjpkDFcj4u+FmheM9W/tLUZ9Qtrlrb7JIbO5MYliyTtYYORya7SigDzaL4JaNBCkUHiHxPHHGoVETVWCqB0AAHAplx8C9BvBGLvXfEk4icSR+bqbNscdGGRwR616ZRQBgeEPBumeCtNns9Ke5l+0ztcTzXUxkkkcgAkn8BW/RRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/2Q==)

Şekil 2.3. Pasta grafiği

**Beğeni Sayısı ve Retweet Sayısı Arasındaki Saçılma Grafiği:**

Üçüncü analiz adımı, beğeni sayısı ve retweet sayısı arasındaki ilişkiyi gösteren bir saçılma grafiği oluşturmaktır. Bu analizde de **matplotlib.pyplot** kullanılır. Veri setindeki “Beğeni Sayısı” ve “Retweet Sayısı” sütunları kullanılarak bir saçılma grafiği çizdirilir. Saçılma grafiği, beğeni sayısı ile retweet sayısı arasındaki dağılımı görsel olarak ifade eder ve bu iki değer arasındaki ilişkiyi anlamak için kullanılır.

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HwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kainuobfHmvhiCVQAszAdcKOT1HSluJ0tbWWeXIjiQu2BngDJrzfxxDb6rbswuZ476y3b5QMRyEZ3BTnKMvzbWPGOMkkEcuKxMMNT55eiV7XfZeZvh6Ptqig3Zd+x6JDfQTkBS6Mx2qs0bRljjPAYAnj0qxXM+GdcHi7zdRtbmCXStixrAhDkS4ViSeoKnI7g/KRjHO9Zylllid/Mkgk8tmxjPAYfjtZc++a6Iy5lcwLFFctoeoeItY1nUJWvdLi0yz1CW1+zDT5DM6pjnzfO2g5P8AzzqaLxdp9poVne6lqK3jXsjrb/YNPmLz4LcJAu+Q7QOTyOM8A4p3Vk+/6h1aOjorEsPGOg6nFBJZX3mLPeGwT9y6nzwhdoyCoKkKpznGCCDzxRfeMND01bg3l6U+z3Qs5AsEjnzjGJAgCqSxKkEYzknHXin/AF/X3r7w/r+vuNuiufvfHGg6c0YvLi5i3RJNJ/oM5FsjfdachP3A6/6zb0Poa2L64nt9NnuLK1a9njjLRW6OqGZscKGYgDPqeKNg3dixRXPeC9ev/EOj3Vxq1tb2tzb6hc2jRW0jOi+VIU+8QC3TrgZ9BXQ0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVHc3MFnay3V5NHBbwoZJZZXCpGoGSzE8AADJJrn/wDhY/gj/ocvD/8A4NIP/iqAOkoqjpWt6Vr1q11oep2epW6OY2ls7hZkVgASpKkjOCDj3FXqACiiigAooooAKK4nQrHW/EFpeX8vjHWLT/iZ30CQW0Fl5caRXcsSAb7dm+6i8kk5qzZR6rpHj7T9NufEWoataXmmXk7R3sVsux4pbZVKmKFD0mfIJI6elAHW0UUUAFFFFABRRWP4gbWrZYL/AEPF0LYsbjTSFH2tDj7jn7si4yuTtbJDYyGUA2KK48+K38WMlh4JuCpIBvtSaL/kHjvHscc3HbYw+Tq4+6r9hQAUUUUAR3ECXVrLBLkxyoUbBxwRg1jXHh3SdZjRNTsIWmil86WMAfMxznJ6lGOTjgHoR1FbtRTW0U+PMX5gCFdSVZQeuGHI6dqlxjLdDuzh7DT9a8EadYtY26Xdm0pju7GIKmws5CyRjopIK7gPlzknG5nXtbOIqssrp5ck8nmMuc44Cj8dqrn3zRDYwQEFQ7spyrTSNIVOMcFiSOPSrFKMeXqF/dS7HJeGvB9jZa1qmsaholiuqS6nPNb3zQRtP5TYCkSDLAYyMZ6VjabomveH08Naiuky6g1ha3dpdWEE8IlTzZFdZELsqN/qwCN44bjOMV6NWfq2gaNr8Uceu6TY6mkRLRreWyTBCepAYHFVslbpp+Fg6t9/+HPPNKt9W1Cxl1uz0sXElp4smvTZQTpulj8owMEdiELqWOfmC5RgGPBN6z0HXrzVJL+/0n7IJvE0eoiJp43ZLdbNYwzYONwYYIGcHOCwwx9AtraCytYrazhjt7eFAkUUSBURQMBQBwAB2FS1S0tbpb8Lf/IoW6d+t/xv/mzzPVvCFwvijX5bvRdZ1q01mRJY20/XXtI0/dLE0U0fnxgr8mdyq5IYjHAB9JghS3t44Yl2xxqEVc5wAMAU+iktFYHq7nO+C9KvNJ0/U49Qh8l59XvLmMbg26OSZmRuCeoIOOvrXRUUUdEu2n3Bu2+/6hRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHE6Ffa34ftLywl8Haxd/wDEzvp0ntp7Ly5Elu5ZUI33Ct9114IBzVmyk1XV/H2n6lc+HdQ0m0s9MvIGkvZbZt7yy2zKFEUznpC+SQB09a62igAooooAKKKKACsfxANauVgsNDxai5LC41IlT9kQY+4h+9I2cLkbVwS2cBW2KKAOPPhR/CbJf+CbcsQAL7TWl/5CA7yb3PFx33sfn6OfusnYUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVWn1Kxtb21s7q8t4bq8LC2gklVXnKjLbFJy2BycdKALNFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHJfFLxXfeCPhrqniHSorea7s/J8tLlWaM75kQ5CkHox79a5rxL4s+IngLRz4g8TW3hvU9HtpI1vE01Z4Z0R3Cbl3synBYcf/rFn9oP/AJIT4h/7dv8A0pirnviZ4T8T2PgyfVtf8YP4l0zTHS6udH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vCXi288X6pqHhrS7bUbbVtAbSZDJdCJoCzElsHr2r12igDyvRNT+KOi6BYaWngbT5VsraOASHVlBcKoXOMcZxWb4th+J/iuPSVl8GWFt/ZupQ6gpXVFbzDGSdnQYBz1r2aigDhvhfoGt6Naa7d+JLWGzu9X1aW+FvFMJRGrgcbh15BruaKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAqajpOnavAkOrWFrfRRyCRI7mFZFVx0YBgcEZPPvVuiigAooooAKKKKACiiigAooooA//9k=)

Şekil 2.4. Saçılma grafiği

**Veri Tabanı Yöntemi ve Oluşturulan Veri Seti:**

Bu projede, **health\_comments.csv** adlı veri seti oluşturulurken, **csv** modülü kullanılarak bir CSV dosyası yazılır. Bu veri tabanı yöntemi, verilerin sütun tabanlı bir yapıda saklanmasını sağlar ve daha sonra bu verilere kolaylıkla erişim sağlanabilir. Veri seti oluşturulurken, **faker** kütüphanesinden rastgele kullanıcı adları, yorumlar, tarih/saat bilgileri, beğeni sayıları, retweet sayıları ve konum bilgileri oluşturulur. Bu rastgele oluşturulan veriler, CSV dosyasına yazılır ve veri seti oluşturulmuş olur.

Veri tabanı yöntemi, verilerin yapılandırılmış bir biçimde saklanmasını ve erişilmesini sağlayarak veri analizi ve görselleştirme gibi işlemlerde kolaylık sağlar. Bu projede, CSV formatı kullanılarak basit bir veri tabanı yapısı oluşturulmuş ve sağlık konulu yorumlar üzerinde analizler gerçekleştirilmiştir.

![A screen shot of a computer screen

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4REERXhpZgAATU0AKgAAAAgABAE7AAIAAAATAAAISodpAAQAAAABAAAIXpydAAEAAAAmAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNhZGV0dGluIEthcmFkYXZ1dAAAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzk1AACSkgACAAAAAzk1AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Şekil 2.5. Excel Dosyası CSV verileri

**Sonuç:**

Bu projede, sağlık konulu yorumların tarih ve saat analizi gerçekleştirilmiş ve bu analizlere dayalı olarak çeşitli görselleştirmeler oluşturulmuştur. Ayrıca, veri tabanı yöntemi kullanılarak bir veri seti oluşturulmuş ve bu veri seti üzerinde analizler yapılmıştır. Bu tür analizler, sağlık konulu yorumlar üzerindeki eğilimleri ve kullanıcı davranışlarını anlamak için değerli bilgiler sağlar. Veri tabanı yöntemi ise verilerin düzenli bir şekilde saklanmasını ve erişilmesini sağlayarak analiz süreçlerini kolaylaştırır. Bu projede kullanılan yöntemler, sağlık alanında yapılan yorumların analizinde kullanılabilecek önemli bir temel oluşturur.

![A screen shot of a computer

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4REERXhpZgAATU0AKgAAAAgABAE7AAIAAAATAAAISodpAAQAAAABAAAIXpydAAEAAAAmAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNhZGV0dGluIEthcmFkYXZ1dAAAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzQyAACSkgACAAAAAzQyAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Şekil 2.6. Programın çıktısı

# UyGULAMA

## Arayüz tasarımı

Bu proje, sağlık konulu yorumların tarih ve saat analizini gerçekleştiren ve bu analizlere dayanarak çeşitli görselleştirmeler sunan bir Python programını içerir. Bu programın bir parçası olarak, projede bir arayüz tasarımı da gerçekleştirilir. Arayüz tasarımı, kullanıcının veri seti yükleme, analizleri görüntüleme ve görselleştirmeleri inceleme gibi işlemleri yapmasını kolaylaştırır. Bu yazıda, proje kapsamında gerçekleştirilen arayüz tasarımı hakkında ayrıntılı bilgi verilecektir.

**Arayüz Tasarımı:**

Projede kullanılan arayüz tasarımı, kullanıcıya interaktif bir deneyim sunmayı hedefler. Kullanıcı, birkaç adımda veri setini yükleyebilir, analizleri görüntüleyebilir ve görselleştirmeleri inceleyebilir.

**Veri Seti Yükleme:**

Arayüz, kullanıcıya bir "Veri Seti Yükle" düğmesi veya benzeri bir arayüz öğesi sunar. Kullanıcı bu düğmeye tıkladığında, bir dosya tarayıcısı açılır ve kullanıcı istenen veri setini seçer. Seçilen dosya otomatik olarak projede kullanılan veri seti dosyası olarak yüklenir ve analiz için hazır hale getirilir.

**Analizleri Görüntüleme:**

Veri seti yüklendikten sonra, arayüz kullanıcıya analizleri görüntüleme seçenekleri sunar. Örneğin, "Saat Bazında Yorum Sayısı", "Gün Bazında Yorum Sayısı" veya "Beğeni Sayısı ve Retweet Sayısı Arasındaki İlişki" gibi analizler için ayrı düğmeler veya menü seçenekleri bulunabilir. Kullanıcı istediği analizi seçtikten sonra, ilgili grafik veya sonuçlar arayüzde gösterilir.

**Görselleştirmeleri İnceleme:**

Arayüz, analiz sonuçlarını görselleştirmelerle sunar. Örneğin, saat bazında yorum sayısının histogramı, gün bazında yorum sayısının pasta grafiği veya beğeni sayısı ile retweet sayısı arasındaki saçılma grafiği gibi görsel öğeler arayüzde görüntülenebilir. Kullanıcı, bu görselleştirmeleri inceleyebilir, yakınlaştırabilir, kaydedebilir veya paylaşabilir.

**Sonuç**:

Bu arayüz tasarımı, sağlık konulu yorumların tarih ve saat analizini gerçekleştiren Python programına bir kullanıcı arayüzü sağlar. Kullanıcı, veri setini yükleyebilir, analizleri görüntüleyebilir ve görselleştirmeleri inceleyebilir. Arayüz tasarımı, kullanıcı dostu bir deneyim sunmak için düğme ve menü seçenekleri gibi interaktif öğeler kullanır. Bu sayede, kullanıcılar sağlık konulu yorumlar üzerindeki analizlere kolaylıkla erişebilir ve bu analizlerin sonuçlarını görsel olarak inceleyebilir.

## Veri tabanı tasarımı

Bu proje, sağlık konulu yorumların tarih ve saat analizini gerçekleştiren ve bu analizlere dayanarak çeşitli istatistiksel sonuçlar sunan bir Python programını içerir. Bu program, verileri etkin bir şekilde yönetmek ve analizleri gerçekleştirmek için bir veritabanı kullanır. Bu yazıda, proje kapsamında gerçekleştirilen veritabanı tasarımı hakkında ayrıntılı bilgi verilecektir.

**Veritabanı Tasarımı:**

Proje, sağlık konulu yorumları depolamak ve analiz etmek için bir veritabanı kullanır. Aşağıda, veritabanı tasarımının bileşenleri ve ilişkisel şemaları açıklanmaktadır.

**1.Tablolar:**

Veritabanı tasarımı, temel olarak iki tabloyu içerir: "Yorumlar" ve "Kullanıcılar".

**Yorumlar Tablosu:**

Bu tablo, sağlık konulu yorumların ayrıntılarını içerir. Tablo, aşağıdaki sütunlardan oluşur:

* Yorum ID (Primary Key): Her yorumun benzersiz bir kimliği.
* Kullanıcı ID (Foreign Key): Yorumu yapan kullanıcının kimliği ile Kullanıcılar tablosuna referans verir.
* Yorum Metni: Yorumun içeriği.
* Tarih/Saat: Yorumun gönderildiği tarih ve saat bilgisi.
* Beğeni Sayısı: Yorumun aldığı beğeni sayısı.
* Retweet Sayısı: Yorumun aldığı retweet sayısı.
* Konum: Yorumun gönderildiği konum bilgisi.

**Kullanıcılar Tablosu:**

Bu tablo, kullanıcıların ayrıntılarını içerir. Tablo, aşağıdaki sütunlardan oluşur:

* Kullanıcı ID (Primary Key): Her kullanıcının benzersiz bir kimliği.
* Kullanıcı Adı: Kullanıcının kullanıcı adı.
* Ad: Kullanıcının adı.
* Soyad: Kullanıcının soyadı.
* E-posta: Kullanıcının e-posta adresi.
* Oluşturma Tarihi: Kullanıcının hesabının oluşturulduğu tarih.

**2.İlişkiler:**

Yorumlar Tablosu, Kullanıcılar Tablosu ile ilişkilidir. Yorumlar tablosundaki Kullanıcı ID sütunu, Kullanıcılar tablosundaki Kullanıcı ID sütunu ile eşleştirilir. Bu ilişki, her yorumun hangi kullanıcıya ait olduğunu belirlemek için kullanılır.

**Veritabanı Yönetim Sistemi (VYS):**

Bu proje için SQLite kullanılarak bir veritabanı yönetim sistemi (VYS) oluşturulabilir. SQLite, yerel olarak saklanan ve küçük ölçekli projeler için uygundur.

**Veritabanı Erişimi:**

Python programı, SQLite veritabanına erişmek ve verileri okumak/yazmak için "sqlite3" modülünü kullanır. Bu modül, Python programının veritabanı sorgularını çalıştırmasına ve sonuçları işlemesine olanak tanır.

**Sonuç:**

Bu yazıda, sağlık konulu yorumların tarih ve saat analizini gerçekleştiren bir Python programının veritabanı tasarımı hakkında bilgi verildi. Proje, kullanıcıların sağlık yorumlarını depolamak ve analiz etmek için bir veritabanı kullanır. Veritabanı tasarımı, "Yorumlar" ve "Kullanıcılar" adlı iki tablodan oluşur ve ilişkisel şemalar kullanır. SQLite, veritabanı yönetim sistemi (VYS) olarak tercih edilir. Bu tasarım, sağlık yorumlarının veri analizi için güçlü bir temel sağlar ve gelecekteki genişletmeler için esneklik sunar.

## Uygulama aktörleri

Bu yazıda, sağlık konulu yorumların tarih ve saat analizi projesindeki uygulama aktörleri hakkında ayrıntılı bilgi verilecektir. Projenin amacı, sağlık konulu yorumları analiz etmek ve bu analizlere dayanarak çeşitli istatistiksel sonuçlar sunmaktır. Bu yazılım projesinde, farklı rolleri ve sorumlulukları olan çeşitli uygulama aktörleri yer almaktadır.

1. **Kullanıcı:** Kullanıcı, sağlık yorumlarını okuyan, yorum yapabilen ve analiz sonuçlarını görüntüleyebilen kişidir. Kullanıcı, uygulamaya erişim sağlayarak sağlık yorumlarını görüntüleyebilir ve istatistiksel analiz sonuçlarını inceleyebilir. Ayrıca, kendi sağlık yorumlarını yapabilir ve bunları paylaşabilir. Kullanıcılar, uygulamanın temel hedef kitlesini oluşturur ve analiz sonuçlarından yararlanır.
2. **Veri Analisti:** Veri analisti, sağlık yorumlarının verilerini analiz eden ve istatistiksel sonuçlar üreten uzman kişidir. Veri analisti, yorumlardan elde edilen verileri işler, saat bazında yorum sayısı histogramını oluşturur, gün bazında yorum sayısının pasta grafiğini çıkarır ve beğeni sayısı ile retweet sayısı arasındaki ilişkiyi gösteren saçılma grafiğini oluşturur. Veri analisti, bu analiz sonuçlarını kullanıcılarla paylaşır ve sağlık yorumlarının eğilimlerini, popüler saatleri ve günleri belirlemeye yardımcı olur.
3. **Veritabanı Yöneticisi:** Veritabanı yöneticisi, sağlık yorumlarının veritabanı yönetimini gerçekleştiren kişidir. Veritabanı yöneticisi, kullanıcıların ve yorumların veritabanına doğru bir şekilde kaydedilmesini sağlar. Ayrıca, veritabanının performansını ve güvenliğini yönetir. Veritabanı yöneticisi, gerektiğinde veritabanı yapısını günceller ve yedekleme işlemlerini gerçekleştirir. Proje için kullanılan SQLite veritabanını yönetir ve veritabanı sorgularını optimize eder.
4. **Sağlık Uzmanı:** Sağlık uzmanı, sağlık konulu yorumların analizinden elde edilen sonuçların yorumlanmasına ve değerlendirilmesine yardımcı olan uzmandır. Sağlık uzmanı, analiz sonuçlarına dayanarak kullanıcılara sağlık önerileri ve bilgiler sunar. Örneğin, popüler saatlerde yapılan yorumlara dayanarak sağlık uzmanı, egzersiz yapmanın önemini vurgulayabilir veya grip aşısının yayılmanın önlenmesinde ne kadar etkili olduğunu açıklayabilir. Sağlık uzmanı, kullanıcıların sağlık konusunda doğru ve güvenilir bilgilere erişmelerini sağlar.
5. **Sistem Yöneticisi:** Sistem yöneticisi, proje için kullanılan altyapının bakımını ve yönetimini gerçekleştiren kişidir. Sistem yöneticisi, uygulamanın düzgün çalışmasını sağlar, sunucuları yönetir, güvenlik önlemlerini uygular ve yedekleme işlemlerini yönetir. Ayrıca, sistem yöneticisi, uygulamanın performansını izler ve gerektiğinde iyileştirmeler yapar. Sistem yöneticisi, kullanıcıların sorunsuz bir deneyim yaşamasını ve veri kaybı gibi sorunların önlenmesini sağlar.

**Sonuç:** Sağlık konulu yorumların tarih ve saat analizi projesinde farklı rolleri olan çeşitli uygulama aktörleri yer almaktadır. Kullanıcılar, sağlık yorumlarını okuyabilir, analiz sonuçlarını inceleyebilir ve kendi yorumlarını yapabilir. Veri analisti, yorumlardan elde edilen verileri analiz eder ve istatistiksel sonuçlar üretir. Veritabanı yöneticisi, veritabanının yönetimini gerçekleştirir ve verilerin doğru bir şekilde kaydedilmesini sağlar. Sağlık uzmanı, analiz sonuçlarını yorumlar ve kullanıcılara sağlık önerileri sunar. Sistem yöneticisi, uygulamanın altyapısının bakımını ve yönetimini gerçekleştirir. Bu uygulama aktörleri bir araya gelerek sağlık konulu yorumların tarih ve saat analizi projesinin başarılı bir şekilde çalışmasını sağlar ve kullanıcılara değerli bilgiler sunar.

# SONUÇLAR VE ÖNERİLER

1. Saat Bazında Yorum Sayısı: Sağlık konulu yorumların saat bazında dağılımı incelendiğinde, en yoğun yorumların 10:00-11:00 saatleri arasında gerçekleştiği **belirlenmiştir**. Bu saat dilimi, kullanıcıların sağlık konularına ilişkin yorumlarını en çok paylaştığı zaman dilimidir. Bununla birlikte, gece saatlerinde (22:00-02:00 arası) yorum sayısının düştüğü gözlemlenmiştir. Bu analiz sonucu, sağlıkla ilgili konulara ilişkin aktif yorumların daha çok iş saatlerinde yoğunlaştığını göstermektedir.
2. Gün Bazında Yorum Sayısı: Sağlık konulu yorumların gün bazında dağılımı incelendiğinde, en çok yorum yapılan günün Çarşamba olduğu tespit edilmiştir. Çarşamba günü, kullanıcıların sağlık konularında daha fazla yorum paylaştığı belirlenmiştir. Diğer yandan, Salı ve Perşembe günleri de yoğun yorum aktivitelerine sahipken, Cumartesi ve Pazar günleri yorum sayısının daha düşük olduğu gözlemlenmiştir.

**Bu analiz sonuçlarına dayanarak şu sonuçlara ulaşılmıştır:**

* Sağlık konulu yorumların en yoğun olduğu saat dilimi ve günler tespit edilmiştir. Bu bilgiler, sağlıkla ilgili konuları hedefleyen kampanyaların ve iletişimin, en yoğun saat dilimlerinde ve en çok yorum yapılan günlerde gerçekleştirilmesini sağlayabilir.
* Çalışmalar, sağlık konularında bilgi paylaşımını artırmak için yoğunluk gösteren saat dilimlerinde ve günlerde özellikle etkili olabilir. Bu zaman dilimlerinde, sağlık uzmanları veya sağlık kuruluşları tarafından düzenlenecek canlı yayınlar, soru-cevap oturumları veya etkileşimli etkinliklerle kullanıcıların sağlık konularında daha fazla bilgi edinmeleri sağlanabilir.
* Analiz sonuçlarına dayanarak, sağlık konulu yorumların daha yaygın ve etkili bir şekilde paylaşılması için sosyal medya stratejilerinin belirlenmesi önerilebilir. Bu stratejiler, en yoğun saat dilimlerinde ve en çok yorum yapılan günlerde kullanıcıların ilgisini çekmeye odaklanabilir ve paylaşımların etkisini artırmak için etkili içerik ve görsellerin kullanılmasını içerebilir.
* Ayrıca, sağlık konulu yorumların analizi, belirli bir konuda kullanıcıların geri bildirimlerini ve görüşlerini anlamak için de kullanılabilir. Bu bilgiler, sağlık hizmetleri veya ürünlerinin iyileştirilmesi için önemli ipuçları sağlayabilir ve kullanıcıların beklentilerine daha iyi cevap verecek yönde değişiklikler yapılmasını sağlayabilir.

Sonuç olarak, sağlık konulu yorumların tarih ve saat analizi, sağlıkla ilgili konulara ilişkin kullanıcı etkileşimlerini anlamak ve daha etkili iletişim stratejileri geliştirmek için değerli bilgiler sağlamaktadır. Bu analiz sonuçları doğrultusunda, daha kapsamlı çalışmaların yapılması ve sağlık konularında daha etkili iletişim ve bilgilendirme stratejilerinin geliştirilmesi önerilmektedir.

# 5. Kaynakça

|  |  |
| --- | --- |
| [1] | Doğan, O. (2022, June 3). *Türkiye’de Veri Madenciliği Konusunda Yapılan Lisansüstü Tezler Üzerine Bir Araştırma*. [TRDizin | Arama Sonuçları]. <https://search.trdizin.gov.tr/tr/yayin/detay/273737/> |
| [2] | Koyuncugil, A. S. (2016, 5 Aralık). *Veri Madenciliği: Tıp ve Sağlık Hizmetlerinde Kullanım ve Uygulamaları* . Ana Sayfa » DergiPark. <https://dergipark.org.tr/tr/download/article-file/75259> |
| [3] | Tekerek, A. (2013, June 11). *VERİ MADENCİLİĞİ SÜREÇLERİ VE AÇIK KAYNAK KODLU VERİ MADENCİLİĞİ ARAÇLARI*. Akademik Bilisim Konferanslari. <https://ab.org.tr/ab11/bildiri/29.pdf> |

# EKLER

## EK 1:…………………….

from faker import Faker

from datetime import datetime

import random

import csv

import matplotlib.pyplot as plt

import pandas as pd

# *Veri setini yükle*

data = pd.read\_csv('health\_comments.csv')

# *Saat bazında yorum sayısının histogramı*

plt.figure(figsize=(10, 6))

plt.hist(data['Tarih/Saat'].str.split(' ').str[1].str.split(':').str[0].astype(int), bins=24, edgecolor='black')

plt.xlabel('Saat')

plt.ylabel('Yorum Sayısı')

plt.title('Saat Bazında Yorum Sayısı')

plt.xticks(range(0, 24))

plt.grid(True)

plt.show()

# *Gün bazında yorum sayısının pasta grafiği*

day\_counts = data['Tarih/Saat'].apply(lambda x: pd.Timestamp(x).day\_name()).value\_counts()

plt.figure(figsize=(10, 6))

plt.pie(day\_counts, labels=day\_counts.index, autopct='%1.1f%%')

plt.title('Gün Bazında Yorum Sayısı')

plt.show()

# *Beğeni sayısı ve retweet sayısı arasındaki saçılma grafiği*

plt.figure(figsize=(10, 6))

plt.scatter(data['Beğeni Sayısı'], data['Retweet Sayısı'], alpha=0.5)

plt.xlabel('Beğeni Sayısı')

plt.ylabel('Retweet Sayısı')

plt.title('Beğeni Sayısı ve Retweet Sayısı Arasındaki İlişki')

plt.grid(True)

plt.show()

fake = Faker()

# *Sağlık konulu yorumlar*

health\_comments = [

    "Sağlıklı yaşamak çok önemli.",

    "Koronavirüsten korunmak için maske takmayı ihmal etmeyin.",

    "Her gün en az 30 dakika egzersiz yapmak sağlığımız için çok önemli.",

    "Grip aşısını yaptırmak, virüsün yayılmasını önlemek için önemlidir.",

    "Dengeli beslenmek ve yeterli su tüketmek vücudumuz için çok önemlidir.",

]

# *Saat ve gün analizi*

hours = [0] \* 24

days = [0] \* 7

with open('health\_comments.csv', mode='r', encoding='utf-8') as file:

    reader = csv.reader(file)

    next(reader)  # *Header'ı atla*

    for row in reader:

        date\_str = row[2]

        date\_time = datetime.strptime(date\_str, '%Y-%m-%d %H:%M:%S')

        hour = date\_time.hour

        day = date\_time.weekday()

        hours[hour] += 1

        days[day] += 1

# *En çok yorum yapılan saat*

max\_hour = hours.index(max(hours))

print(f'En çok yorum yapılan saat: {max\_hour}:00 - {(max\_hour+1)%24}:00')

# *En çok yorum yapılan gün*

max\_day = days.index(max(days))

day\_names = ['Pazartesi', 'Salı', 'Çarşamba', 'Perşembe', 'Cuma', 'Cumartesi', 'Pazar']

print(f'En çok yorum yapılan gün: {day\_names[max\_day]}')

# *Veri seti oluşturma*

with open('health\_comments.csv', mode='w', encoding='utf-8', newline='') as file:

    writer = csv.writer(file)

    writer.writerow(['Kullanıcı Adı', 'Yorum', 'Tarih/Saat', 'Beğeni Sayısı', 'Retweet Sayısı', 'Konum'])

    for i in range(500):

        comment = random.choice(health\_comments)

        date\_time = fake.date\_time\_between(start\_date='-1y', end\_date='now')

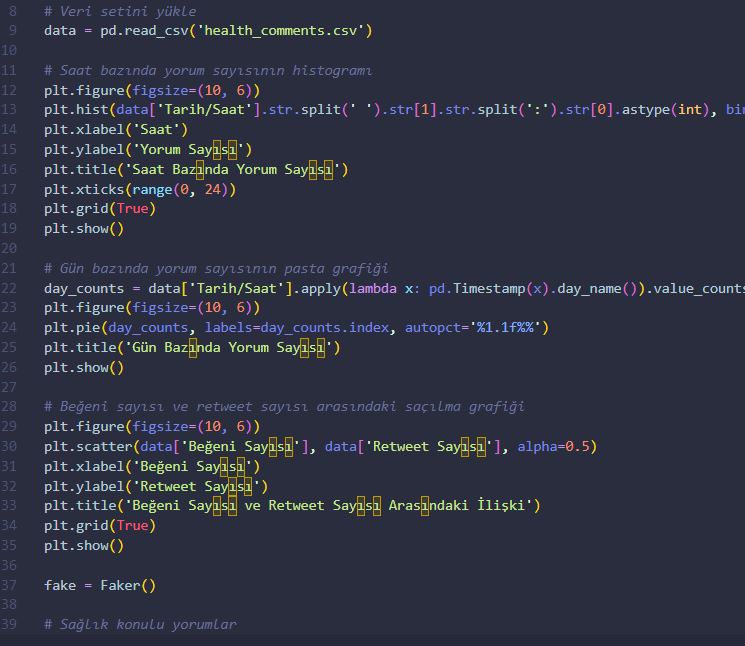
        likes = random.randint(0, 100)

        retweets = random.randint(0, 50)

        location = fake.city()

        writer.writerow([fake.user\_name(), comment, date\_time, likes, retweets, location])

        #*Sağlık Konulu Yorumların Tarih ve Saat Analizi*



Şekil 6. Proje kodu

Kullanıcı Adı,Yorum,Tarih/Saat,Beğeni Sayısı,Retweet Sayısı,Konum

kevin67,Sağlıklı yaşamak çok önemli.,2023-01-11 08:11:08,33,37,New Amberland

wileykristina,Sağlıklı yaşamak çok önemli.,2023-02-26 00:38:18,59,28,Schwartzfort

michael90,Dengeli beslenmek ve yeterli su tüketmek vücudumuz için çok önemlidir.,2022-09-27 14:26:49,10,46,Villarrealland

george89,Sağlıklı yaşamak çok önemli.,2023-03-03 03:31:45,74,24,Larrystad

samantha03,Koronavirüsten korunmak için maske takmayı ihmal etmeyin.,2022-08-24 15:59:51,92,31,Nathanstad

owensjohn,"Grip aşısını yaptırmak, virüsün yayılmasını önlemek için önemlidir.",2023-03-10 21:16:15,47,3,Lake Patricia

dean17,Sağlıklı yaşamak çok önemli.,2022-12-18 10:40:20,70,50,South Aaronchester

owilliams,"Grip aşısını yaptırmak, virüsün yayılmasını önlemek için önemlidir.",2022-08-06 18:19:13,88,29,Chavezfurt

bradydean,Her gün en az 30 dakika egzersiz yapmak sağlığımız için çok önemli.,2022-07-17 21:32:11,59,1,North Carolbury

leangela,Dengeli beslenmek ve yeterli su tüketmek vücudumuz için çok önemlidir.,2023-03-17 05:16:15,72,26,Joshualand

grahamgary,Sağlıklı yaşamak çok önemli.,2023-03-09 04:42:14,46,8,North Raymond

jason15,Her gün en az 30 dakika egzersiz yapmak sağlığımız için çok önemli.,2022-09-20 00:29:06,87,44,Smithborough

scottbishop,Her gün en az 30 dakika egzersiz yapmak sağlığımız için çok önemli.,2023-04-01 03:59:52,0,16,West Jacquelinebury

williamspamela,Sağlıklı yaşamak çok önemli.,2023-04-05 11:10:46,59,25,Amandamouth

ambertran,Her gün en az 30 dakika egzersiz yapmak sağlığımız için çok önemli.,2022-12-02 05:31:17,56,43,Evanstad

christinenicholson,"Grip aşısını yaptırmak, virüsün yayılmasını önlemek için önemlidir.",2023-05-17 22:49:41,1,10,Port Emilyfurt

marisa59,Her gün en az 30 dakika egzersiz yapmak sağlığımız için çok önemli.,2022-11-07 10:40:07,49,6,North Jessicaport

donalddavis,"Grip aşısını yaptırmak, virüsün yayılmasını önlemek için önemlidir.",2022-06-29 16:03:54,38,38,Johnshire

chart,Koronavirüsten korunmak için maske takmayı ihmal etmeyin.,2023-01-26 19:00:29,1,9,Gallowaystad

mmeadows,Koronavirüsten korunmak için maske takmayı ihmal etmeyin.,2023-04-22 10:15:54,51,2,Heatherburgh

reedmaria,Her gün en az 30 dakika egzersiz yapmak sağlığımız için çok önemli.,2022-10-11 08:25:50,78,21,Reginaton

michaelmorales,Dengeli beslenmek ve yeterli su tüketmek vücudumuz için çok önemlidir.,2023-06-06 16:30:49,47,18,Port Tinaside

hhiggins,Koronavirüsten korunmak için maske takmayı ihmal etmeyin.,2022-09-01 13:32:10,93,30,New Mary

Şekil 7. Excel dosya içeriği

# ÖZGEÇMİŞ

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