Assignment 3

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Reddit Assignment

1. The keyword that I decided to use was “Formula1”. Formula 1 has been around since 1950 and has grown in popularity mainly due to the social media. In recent years, there has been a boom in popularity of this sport for multiple reasons, but the main reason to take away here is it social media presence. It has grow dramatically that social media allows us to stay connected with teams, drivers, and other fans to communicate information between each other.
   1. There were 4 cases in which I specified different number of topics.
      1. Case 1: 7 Topics
      2. Case 2: 4 Topics
      3. Case 3: 2 Topics
      4. Case 4: 6 Topics
   2. In the first case, I specified 7 different topics related to Formula 1. I think this result yeilded some odd topics and like in Topic 3, row 4 and 8 have abnormal results.

A screenshot of a computer program

Description automatically generated

In the second case, I specified 4 different topics related to Formula 1. I think this case also resulted in results not really related to formula one lke “spiderman” and “gamestop”.

A screenshot of a computer code

Description automatically generated

In the third case, I specified 2 different topics related to Formula 1. This case resulted in better results but the abnormalitiesare still present and the results for some don’t really show the infor related to Formula 1 like “will”, “one” “poison”.

A screenshot of a computer code

Description automatically generated

And for the fourth and last case, I specified 6 different topics related to Formula 1. I think this yielded the best results for the keyword used. It contains results related to Formula 1 and doesn’t have too much abnormalities in selections of topics.

A screenshot of a computer code

Description automatically generated

* 1. The gamma results for the first case is as shown below. Upon inspection, you will see that the each row has a Url with its text extracted from its post. The topic column shows the user what topic that post is related to. And in this case, we selected 4 different topics. Along with that, the X1-X7 values represent the probability that post being related to the specific topic. So in the case of the first “post”, we can see that it is related to topic 6 and its probability of it being related to topic 6 is shown in X6, which is .2373… This is also the highest in that row of probabilities(X1-X7) which makes sense since it was the highest probability to be chose, hence the value for the topic on the post is 6. As you go through each case, you can see the probabilities vary from each other. Also noted is that if you add up all the probabilities, you will expect a result of 1.

A screenshot of a computer

Description automatically generated

The gamma results for the second case is as shown below. Upon inspection, you will see that the each row has a Url with its text extracted from its post. The topic column shows the user what topic that post is related to. Along with that, the X1-X4, values represent the probability that post being related to the specific topic. And in this case, we selected 4 different topics. So in the case of the first “post”, we can see that it is related to topic 4 and its probability of it being related to topic 4 is shown in X4, which is .2867… This is also the highest in that row of probabilities(X1-X4) which makes sense since it was the highest probability to be chose, hence the value for the topic on the post is 4. As you go through each case, you can see the probabilities vary from each other. Also noted is that if you add up all the probabilities, you will expect a result of 1.

A screenshot of a computer

Description automatically generated

The gamma results for the third case is as shown below. Upon inspection, you will see that the each row has a Url with its text extracted from its post. The topic column shows the user what topic that post is related to. And in this case, we selected 2 different topics. Along with that, the X1-X2, values represent the probability that post being related to the specific topic. So in the case of the first “post”, we can see that it is related to topic 2 and its probability of it being related to topic 2 is shown in X2, which is .58823529… This is also the highest in that row of probabilities(X1-X2) which makes sense since it was the highest probability to be chose, hence the value for the topic on the post is 2. As you go through each case, you can see the probabilities vary from each other. Also noted is that if you add up all the probabilities, you will expect a result of 1.

A screenshot of a computer

Description automatically generated

The gamma results for the fourth case is as shown below. Upon inspection, you will see that the each row has a Url with its text extracted from its post. The topic column shows the user what topic that post is related to. And in this case, we selected 6 different topics. Along with that, the X1-X6, values represent the probability that post being related to the specific topic. So in the case of the first “post”, we can see that it is related to topic 5 and its probability of it being related to topic 5 is shown in X6, which is .21078314… This is also the highest in that row of probabilities(X1-X6) which makes sense since it was the highest probability to be chose, hence the value for the topic on the post is 5. As you go through each case, you can see the probabilities vary from each other. Also noted is that if you add up all the probabilities, you will expect a result of 1.

A screenshot of a computer

Description automatically generated

X(Twitter) Assignment

1. The post below shows a recent tweets collected using keyword “NBA OR Suns”. What is interesting is that a couple of minutes prior to collecting data, there was a small fight in an NBA game that was going on. Immediately after running the code to collect tweets with keywords “NBA or Suns”, it collected recent tweets and most of them were related to the fight going on, such as the one below.

**LET’S GET TOXIC NBA IS HERE BABY!!!** <https://t.co/0rWYTvEMwx>

**2023-11-15 04:04:09+00:00**

**{'retweet\_count': 18, 'reply\_count': 0, 'like\_count': 0, 'quote\_count': 0, 'bookmark\_count': 0, 'impression\_count': 0}**

[{'domain': {'id': '3', 'name': 'TV Shows', 'description': 'Television shows from around the world'}, 'entity': {'id': '10000607734', 'name': 'NBA Basketball', 'description': 'All the latest basketball action from the NBA.'}}, {'domain': {'id': '3', 'name': 'TV Shows', 'description': 'Television shows from around the world'}, 'entity': {'id': '10029304530', 'name': 'NBA Basketball'}}, {'domain': {'id': '11', 'name': 'Sport', 'description': 'Types of sports, like soccer and basketball'}, 'entity': {'id': '706083902411055104', 'name': 'Basketball'}}, {'domain': {'id': '26', 'name': 'Sports League', 'description': ''}, 'entity': {'id': '706083889454813185', 'name': 'NBA'}}, {'domain': {'id': '46', 'name': 'Business Taxonomy', 'description': 'Categories within Brand Verticals that narrow down the scope of Brands'}, 'entity': {'id': '1557697289971322880', 'name': 'Sports & Fitness Business', 'description': 'Brands, companies, advertisers and every non-person handle with the profit intent related to sports nutrition, athletic apparel, sports apps, fitness venues'}}, {'domain': {'id': '131', 'name': 'Unified Twitter Taxonomy', 'description': 'A taxonomy of user interests. '}, 'entity': {'id': '706083889454813185', 'name': 'NBA'}}, {'domain': {'id': '131', 'name': 'Unified Twitter Taxonomy', 'description': 'A taxonomy of user interests. '}, 'entity': {'id': '706083902411055104', 'name': 'Basketball'}}, {'domain': {'id': '131', 'name': 'Unified Twitter Taxonomy', 'description': 'A taxonomy of user interests. '}, 'entity': {'id': '847900493514891265', 'name': 'Sports', 'description': 'Sports'}}, {'domain': {'id': '45', 'name': 'Brand Vertical', 'description': 'Top level entities that describe a Brands industry'}, 'entity': {'id': '781974597310615553', 'name': 'Entertainment'}}, {'domain': {'id': '47', 'name': 'Brand', 'description': 'Brands and Companies'}, 'entity': {'id': '10042758024', 'name': 'NBA'}}]

**2023-11-15 04:04:09+00:00**

**{'retweet\_count': 18, 'reply\_count': 0, 'like\_count': 0, 'quote\_count': 0, 'bookmark\_count': 0, 'impression\_count': 0}**

1. The post below shows a recent tweets collected by X(twitter) user “NBA”. This is the official NBA account where news and updates related to NBA are posted on. It shows the post content including recent tweets and retweets as well as info regarding counts like retweets, reply, like, quote, bookmark, and impression.

**LeBron was feeling the In-Season Tournament energy in warmups tonight 🕺😂**

**🏆 NBA In-Season Tournament**

**🏀 West Group A action on NBA App**

**📱** [**https://t.co/0IVYAYRkm0**](https://t.co/0IVYAYRkm0)[**https://t.co/WT5uqsW9dT**](https://t.co/WT5uqsW9dT)

**2023-11-15 04:00:30+00:00**

**{'retweet\_count': 7, 'reply\_count': 9, 'like\_count': 75, 'quote\_count': 1, 'bookmark\_count': 5, 'impression\_count': 4150}**

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2023-11-15 04:00:30+00:00

{'retweet\_count': 7, 'reply\_count': 9, 'like\_count': 75, 'quote\_count': 1, 'bookmark\_count': 5, 'impression\_count': 4150}

1. The post below shows a recent tweets collected by X(twitter) user “F1”. This is the official Formula 1 account where news and updates related to Formula 1 are posted on. This post only has original tweets, meaning no retweets. It shows the post content as well as info regarding counts like retweets, reply, like, quote, bookmark, and impression.

**Noooo Carlos!**

**The Netflix Cup did not survive the celebrations 😆🏆**

**#LasVegasGP #F1 @Carlossainz55 @ScuderiaFerrari** [**https://t.co/DmboesdWJR**](https://t.co/DmboesdWJR)

**2023-11-15 02:13:14+00:00**

**{'retweet\_count': 943, 'reply\_count': 167, 'like\_count': 8815, 'quote\_count': 338, 'bookmark\_count': 241, 'impression\_count': 641901}**

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**2023-11-15 02:13:14+00:00**

**{'retweet\_count': 943, 'reply\_count': 167, 'like\_count': 8815, 'quote\_count': 338, 'bookmark\_count': 241, 'impression\_count': 641901}**