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Introduction to Data Science  
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Chatting Traders Report

### **Introduction:**

The ForEx trading system was used by many individuals and we decided to create a program that determined how these users were able to communicate and monitor any activity they encountered. We split the means of communication and account activity into four different categories: Discussion-Distribution, Discussion Types, Post Activity, and Message Types. After creating these categories we used different types of diagrams to find out what kinds of percentages we are seeing out of these groups. In addition to the charts, we categorized each relevant area that should be brought to light.

### **Discussion-Distribution:**

Throughout this pie chart, we were able to determine the most popular category out of the posts that were created by any user. These categories were labeled economic environment, feed item, market commentaries, news reports, polls created by the user, what position they were in, questions they needed answered, technical, and technical indicators. All of these categories were given a percentage for however many times they appear. The more posts that were created about them, the higher their percentage. Overall, the most popular category would be questions asked by a user that needed to be answered at 52.6%.

### **Discussion Types:**

Along with discussion distribution, we created another pie chart for what kinds of discussions that were talked about in the ForEx Trading System. Similar to the discussion distribution pie chart, we see similar types of discussions. Here, we can see the news reports

were the most popular type with over 369,752 posts. These numbers were different from the previous chart, even though they had similar types.

**Post Activity:**

The next diagram we created was a histogram of the post activity delay, which is the time between user account creation and posting the first discussion message. This diagram is showing how long it took someone to create their first post and allow other users to see it. For the most part, it took many users a very long time to create the account and finish the posts. As we know, the most popular category would be carried over from the discussion distribution, which is questions. Altogether, we are able to see as the user creates the account it will take them a very good amount of time to finally post the discussion they had.

**Message Types:**

The final diagram we created involves another pie chart about the subject of the Types of Messages that were sent. Here, we can see there were only two types we used in the chart that being the “friend link request” and a “direct message.” Both of these contribute to what the user is sending towards another individual. As seen in the diagram, the friend link request covered the majority of the chart at 90.7%. This tells us that the user has more friend requests than sending direct messages.

**Conclusion:**

Overall, our data was displayed over the course of four different categories. The majority of these categories were displayed using pie charts. Although, there were some types that dominated each category we were given a clear indication of how long people took to post on the forums, what types of subjects the users were mentioning repetitively, how others interacted with each other, and what were the most popular areas in each category.