Brazil covered with forest fires - Data project 6

- 1. Import all required libraries
- 2. Read the csv file and if you experience 'unicodedecodeerror' then give second parameter in read_csv method as 'encoding=iso-8859-1'
- 3. Check data type of each column
 - a. Find what is the type of 'date' column is
 - b. If it is of 'object' type, we need to convert the type into datetime
 - c. For conversion you need to make changes again in read_csv method, put third parameter into it for parsing dates (you need to figure out by yourself regarding third parameter)
 - d. Please check after making changes what is the data type of date column is (it should be datetime)
- 4. Display top 5 rows of the dataset.
- 5. Check last 5 rows.
- 6. Find shape of our dataset (number of rows and number of columns).
 - a. Kindly print number of rows and columns separately
- 7. Getting information about our dataset like total number rows, total number of columns, datatypes of each column and memory requirement.
- 8. Check for duplicate data and drop them.
 - a. You can use duplicated () method
 - b. Please mention how many duplicate values are removed
- 9. Check null values in the dataset.
 - a. Please add a comment if you find any null value
- 10. Get overall statistics about the data frame.
 - a. Here you will find that you are getting only numerical columns
 - b. Kindly show categorical columns as well, if you find any warning then kindly add extra parameter in method.
- 11. Rename month names to english.
 - a. You will some columns in different language, you need to change them into english
- 12. Total number of fires registered.

- 13. In which month maximum number of forest fires were reported?
 - a. You need to create proper stats and showing them with the help of bar plot
 - b. Mention in your comment what did you observe
- 14. In which year maximum number of forest fires was reported?
 - a. Please visualize your output with barplot
- 15. In which state maximum number of forest fires was reported?
 - a. Visualization should be there
 - b. If find that barplot is overlapping, then please fix it using rotation
- 16. Find total number of fires were reported in amazonas (state of brazil)
 - a. Add in comment the number of reports
- 17. Display number of fires were reported in amazon (year-wise)
 - a. Kindly visualize it using barplot after having groupby
 - b. Please take care of plot overlapping (it should be neat and clean)
- 18. Display number of fires were reported in amazon (day-wise)
 - a. You need to visualize the result using weekdays name
 - b. Don't forget to mention your observation in comment
- 19. Find total number of fires were reported in 2015 and visualize data based on each 'month'.
 - a. Showing output with beautiful barplot
 - b. Mention your observation in comment
- 20. Find average number of fires were reported from highest to lowest (state-wise).
 - a. Visualization should be there with proper observation
- 21. To find the state names where fires were reported in 'dec' month.

Bonus: no limit for adding extra analysis.