${\tt concordance}{=}{\tt TRUE}$

Plastic Pollution in Oceans Group 2 Report - CMM507

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February 25, 2020

Objective

- To understand the composition of plastic pollutants in the ocean
- To understand the sources of plastic pollutants
- To understand how plastic pollution gets distributed across the oceans

1 Problem Statement

- 1.1 Overview
- 1.2 Motivation
- 1.3 Objectives

The main objectives of this project can be outlined as follows:

2 Research

[4].

3 Methods

- 3.1 Data Collection
- 3.2 Exploration Pre-processing

In this project iris was used, the dataset is made of 150 rows and four features.

Notice how we generate graphics within the sweave document. Check the following code, we will create a function that either finds x^2 or x^3 subject to parameters passed in the function

```
# create a vector of doubles
myNumbers <- seq(from=-1,to=1,by=.1)

# function definition
toPower <- function (x,p=2) {
    if (p==2)
        return (x*x)
    else if (p==3)
        return (x*x*x)
    return (x*x*x)

    return (x*x)
}

# call function
squared <- toPower(myNumbers)
cubes <- toPower(myNumbers,3)</pre>
```

An easy way to check that our function is doing the right calculation is to plot the results. The code below will generate a figure similar to Figure 1:

```
plot(myNumbers,cubes,type='b',xlab = 'x', ylab = 'x*x',frame=FALSE,col='blue')
```

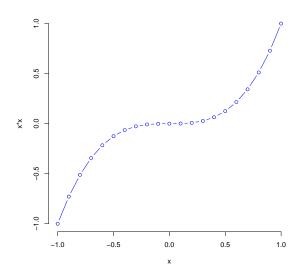


Figure 1: Simple Plot of $f(x) = x^3$ Function

3.3 Experiments

Now we can show how the function $f(x) = x^2$ looks like (Figure 2)

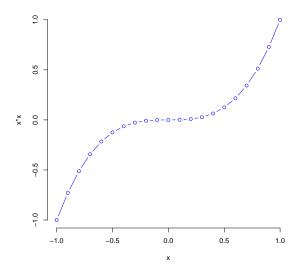


Figure 2: Simple Plot of $f(x) = x^3$ Function

4 Conclusion and Future Work

5 Project Management

5.1 Project Progress

Table 1: Record of Team Meetings

No	Date	Topic	John	Ali	Ann	Mon
1.00	2019-02-05	Team Formation Formation Formation	yes	yes	yes	yes
		Formation				
2.00	2019-02-06	Team Formation	yes	yes	yes	yes
3.00	2019-02-07	Team Formation	yes	yes	yes	yes
4.00	2019-02-08	Team Formation	yes	yes	yes	yes
5.00	2019-02-09	Team Formation	yes	yes	yes	yes
6.00	2019-02-10	Team Formation	yes	yes	yes	yes
7.00	2019-02-11	Team Formation	yes	yes	yes	yes
8.00	2019-02-12	Final Meeting	yes	yes	yes	yes

5.2 Peer-assessment

Same as we did with Table 1, we can also generate the peer-assessment table providing that we record things in an excel sheet.

References

[1] Yihui Xie. knitr: A general-purpose package for dynamic report generation in R. R package version 1.4.1. 2013. URL: http://yihui.name/knitr/.

Table 2: Peer Assessment out of 100

Peer.Review	Alex	Georgios	Karen	Roshi	Stuart
Alex	100	100	100	100	100
Georgios	100	100	100	100	100
Karen	100	100	100	100	100
Roshi	100	100	100	100	100
Stuart	100	100	100	100	100

- [2] Eyad Elyan and Mohamed Medhat Gaber. "A genetic algorithm approach to optimising random forests applied to class engineered data". In: *Information Sciences* 384. Supplement C (2017), pp. 220–234. ISSN: 0020-0255. DOI: 10.1016/j.ins.2016.08.007. URL: https://doi.org/10.1016/j.ins.2016.08.007.
- [3] Eyad Elyan and Mohamed Medhat Gaber. "A fine-grained Random Forests using class decomposition: an application to medical diagnosis". In: Neural Computing and Applications 27.8 (Nov. 2016), pp. 2279–2288. ISSN: 1433-3058. DOI: 10.1007/s00521-015-2064-z. URL: https://doi.org/10.1007/s00521-015-2064-z.
- [4] E. Elyan, C. M. Garcia, and C. Jayne. "Symbols Classification in Engineering Drawings". In: 2018 International Joint Conference on Neural Networks (IJCNN). July 2018, pp. 1–8. DOI: 10.1109/IJCNN. 2018.8489087.