

# STATISTICAL MACHINE LEARNING ASSIGNMENT 1

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## Exercise 1

1. Lorem ipsum

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Listing 1: Sample Python code – Fibonacci sequence calculated analytically.

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```
1 from math import *
2
3 # define function
4 def analytic_fibonacci(n):
5     sqrt_5 = sqrt(5);
6     p = (1 + sqrt_5) / 2;
7     q = 1/p;
8     return int( (p**n + q**n) / sqrt_5 + 0.5 )
9
10 # define range
11 for i in range(1,31):
12     print analytic_fibonacci(i)
```

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2.

3.

4.

5.

## Exercise 2

## Exercise 3