**Course Program**

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| **Part 1-Python Programming** | | | |
| **Activity** | **Day** | **Date** | **Time** |
| 1. Environment setup and introduction to Python. | Day1 | 20/07/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Python Basics | Day 2 | 21/07/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Python Basics | Day 3 | 22/07/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Python Object Oriented Programming (Functions) | Day 4 | 25/07/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Python Object Oriented Programming (Classes) | Day 5 | 26/07/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Python Object Oriented Programming (Inheritance) | Day 6 | 27/07/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| **END OF PART 1** | | | |

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| **Part 2- Supervised Machine Learning** | | | |
| **Activity** | **Day** | **Date** | **Time** |
| 1. Introduction to Machine learning | Day7 | 02/08/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Introduction to Machine learning libraries | Day 8 | 03/08/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Linear Regression project | Day 9 | 04/08/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Logistic regression project | Day 10 | 05/07/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Cross Validation | Day 11 | 08/08/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Decision Trees | Day 12 | 09/08/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am (End) |
| 1. Random Forest Classifier and Boosting | Day 13 | 10/08/2022 | 9:00 am – 10:00 am (Start)  10:00am-10:15am (Break)  10:15 am-11:00 am  11:00 am-11:15 am (Break)  11:15 am – 12:00 pm(End) |
| **END OF PART 2** | | | |

**Important links:**

1. Choosing the machine learning algorithm.

<https://scikit-learn.org/stable/tutorial/machine_learning_map/index.html>