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| **WEEK** | **THEME** | **TOPIC** | **FORM** | **WORK TO DO** |
| **1** | BASIC CONCEPTS | THE WORK OF A DATA ANALYST | DISCUSSION | ASSIGNMENT |
|  | MEASURES OF CENTRAL TENDENCY | DISCUSSION | ASSIGNMENT |
| BASIC PYTHON | INTRODUCTION TO CONDA & JUPYTER | DISCUSSION & VIDEO | CREATE A NOTEBOOK & SHARE |
|  | ARITHMETIC OPERATORS & DATA TYPES | DISCUSSION | PERSONAL ADMINISTRATION |
|  | VARIABLES | VIDEO | VARIABLE PRACTICE $ SHARE |
| **2** | BASIC CONCEPTS | DISPERSION AND CHANCE | DISCUSSION | ASSIGNMENT |
|  | SAMPLING TECHNIQUE | DISCUSSION | CREATE A GOOGLE FORM |
| BASIC PYTHON | USER INPUT | VIDEO | THE INTERVIEW PROGRAM |
|  | TRAFFIC CONTROL | VIDEO | THE GRADE REPORTER PROGRAM |
|  | FUNCTIONS 1 | VIDEO | THE INFOMINER FUNCTION |
| **3** | BASIC CONCEPTS | HYPOTHESIS | DISCUSSION | ASSIGNMENT |
|  | ASSOCIATION AND CORRELATION | DISCUSSION/READINGS | ASSIGNMENT |
| BASIC PYTHON | FUNCTIONS 2 | VIDEO | MULTIVARIATE FUNCTION |
|  | DATA STRUCTURES AND METHODS | VIDEO | THE GRADE LIST PROGRAM |
|  | DATA STRUCTURES AND METHODS | VIDEO | PERSONAL PROGRAM |
| **4** | BASIC CONCEPTS | LIKERT SCALE AND RANKING | DISCUSSION/READINGS | ASSIGNMENT |
|  | REGRESSION | DISCUSSION/READINGS | ASSIGNMENT |
| BASIC PYTHON | MODULES/CLASSES | VIDEO | WRITE AND SHARE A MODULE |
|  | READING AND WRITING TO FILE | VIDEO | IMPROVE THE INFOMINER |
|  | CODE ALONG 1: ALG + GITHUB | LIVE CODING CLASS | CODE ALONG |
| **NOTE THAT THE PLATFORM SHALL BE ZOOM FOR CODE ALONG** | | | | |

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| **WEEK** | **THEME** | **TOPIC** | **FORM** | **WORK TO DO** |
| **5** | BASIC CONCEPTS | CLASSIFICATION AND PREDICTION | DISCUSSION |  |
|  | CREATING ENVIRONMENTS | LINKED VIDEO |  |
| LIBRARIES | NUMPY I | VIDEO |  |
|  | NUMPY II | VIDEO |  |
|  | NUMPY III | VIDEO | NUMPY CHEAT SHEET DRAFT |
| **6** | BASIC CONCEPTS | STORY TELLING | DISCUSSION |  |
|  | STRATEGY AND TACT | DISCUSSION | PUBLISH A STORY ONLINE |
| LIBRARIES | NUMPY IV | VIDEO | NUMPY CHEAT SHEET FINAL |
|  | PANDAS I | VIDEO |  |
|  | PANDAS II | VIDEO |  |
| **7** | DATA ANALYSIS | EDA I | VIDEO |  |
|  | EDA II | VIDEO | PROJECT 1: CHOOSE A DATASET AND CONDUCT EDA ON IT. |
| LIBRARIES | PANDAS III | VIDEO | PANDAS CHEAT SHEET |
|  | MATPLOTLIB AND SEABORN I | VIDEO |  |
|  | MATPLOTLIB AND SEABORN II | VIDEO |  |
| **8** | DATA ANALYSIS | MODELLING STATISTICAL PROPERTIES | VIDEO | WRITE AN ARTICLE ON DATA ANALYSIS AND PUBLISH |
|  | NAIVE BAYES/ CONDITIONAL PROBABILITY | VIDEO |  |
| LIBRARIES | SCIKIT-LEARN I | VIDEO |  |
|  | SCIKIT-LEARN II | VIDEO |  |
|  | CODE ALONG II : PREDICT APPOINTMENT | LIVE CODING CLASS | CODE ALONG |
| **NOTE THAT THE PLATFORM SHALL BE ZOOM FOR CODE ALONG** | | | | |

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| **WEEK** | **THEME** | **TOPIC** | **FORM** | **WORK TO DO** |
| **9** | DATA ANALYSIS | SIMPLE LINEAR REGRESSION | VIDEO |  |
|  | MULTIPLE LINEAR REGRESSION | VIDEO |  |
|  | LOGISTIC LINEAR REGRESSION | VIDEO | PROJECT 2: CHOOSE A DATASET AND MODEL THE OUTCOME VARIABLE |
| LIBRARIES | LIBRARIES MOP UP I | DISCUSSION |  |
|  | LIBRARIES MOP UP II (WORD & STYLE CLOUD) | VIDEO |  |
| **10** | DATA ANALYSIS | DATA WRANGLING | DISCUSSION |  |
|  | DATA WRANGLING II | VIDEO |  |
| DATA ANALYSIS | DATA WRANGLING III | VIDEO |  |
|  | DATA WRANGLING IV | VIDEO |  |
|  | DATA WRANGLING V | VIDEO | PROJECT 3: WRANGLE DATASETS FROM DIFFERENT SOURCES |
| **11** | DATA ANALYSIS | ANSCORBE QUARTET AND DESIGN PRINCIPLES | DISCUSSION |  |
|  | DATA VISUALIZATION I | VIDEO |  |
| DATA ANALYSIS | DATA VISUALIZATION II | VIDEO |  |
|  | DATA VISUALIZATION III | VIDEO |  |
|  | DATA VISUALIZATION IV | VIDEO | PROJECT 4: CHOOSE A DATASET AND VISUALIZE IT |
| **12** | DATA ANALYSIS | DATA WRANGLING MOP UP | VIDEO |  |
|  | DATA VISUALIZATION MOP UP | VIDEO |  |
| DATA ANALYSIS | DATA ANALYSIS MOP UP | VIDEO |  |
|  | SHOWCASING | VIDEO | PROJECT 5: WRITE AN INSIGHTFUL ARTICLE ON A CURRENT ISSUE |
|  | CODE ALONG III: NAIJA COVID-19 DATA | LIVE CODING CLASS | CODE ALONG |
| **NOTE THAT THE PLATFORM SHALL BE ZOOM FOR CODE ALONG** | | | | |

**THE FINAL PROJECT IS EXPECTED TO HAVE BEEN SUBMITTED BY THE LAST DAY OF WEEK 15.**

**OTHER CODE ALONGS MAY BE SCHEDULED BASED ON DEMAND. THERE SHALL NOT BE MORE THAN THREE CODE ALONGS IN A PERIOD OF 4 WEEKS.**