Al Invasion Curriculum : Outline and NoteBooks

Day	Topic	Subtopics
1	Introductions	Introduction to Data Science Nigeria
	What is Data Science, Machine Learning, Deep Learning and Artificial Intelligence?	Definition of concepts:Data Science, Machine Learning, Deep Learning and Artificial Intelligence?
		Deep dive into use cases and importance
		Steps in a Machine Learning project
		Types of Machine Learning algorithms
	Introduction to platforms (Anaconda/Jupyter Notebook) and Python Libraries	Installation walkthrough
	Mathematics and Statistics review	A Mathematical Introduction to Machine Learning
	Statistics and Probability for Machine Learning	Concepts and terms
		Sampling techniques
		Types of Statistics
		Probability
2	Data wrangling and Exploratory Data Analysis	Data wrangling and analysis
		Exploratory data analysis
		Data cleaning and preparation
		Dealing with categorical features
	Supervised Learning: Introduction to Regression Analysis	Regression Analysis
		Concept of Linear Regression
		Assumptions of Linear Regression
		Tree Based Regression
		Class Activity
		Class Activity
3	Supervised Learning: Classification	Comparison of Regression and classification
		Binary classification

1 of 1 6/19/2021, 1:13 PM