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No	Topics	Weeks	
1	Data Science Overview		
	Data Science		
	Data Scientists		
	Examples of Data Science		
	Python for Data Science		
2	Data Analytics Overview		
	Introduction to Data Visualization		
	Processes in Data Science		
	Data Wrangling, Data Exploration, and Model Selection	Week 1 &	
	Exploratory Data Analysis or EDA	Week 2	
	Data Visualization		
	Plotting		
	Hypothesis Building and Testing		
3	Statistical Analysis and Business Application		
	Introduction to Statistics	Week 3	
	Statistical and Non-Statistical Analysis		
	Some Common Terms Used in Statistics		
4	Data Distrubutions: Central Tendency, Percentiles, Dispersion		
	Histogram		
	Bell Curve		
	Hypothesis Testing	Week 3	
	Chi-Square Test		
	Correlation Matrix		
	Inferential Statistics		
5	Python: Enviromental Setup		
	Introduction to Anaconda		
	Installation of Anaconda Python Distribution - For Windows, Mac OS,		
	Jupyter Notebook Installation		
	Jupyter Notebook Introduction		
	Basic Data Types: Integer, Float, String, None, and Boolean; Typecasti		
	Creating, accessing, and slicing tuples		
	Creating, accessing, and slicing lists		
	Creating, viewing, accessing, and modifying dicts		
	Creating and using operations on sets		
	Basic Operators: 'in', '+', '*'		
	Functions	1	

Control Flow			
6 Mathmatical Computing With Numpy			
NumPy Overview			
Properties, Purpose, and Types of ndarray			
Class and Attributes of ndarray Object			
Basic Operations: Concept and Examples	)A/a a la 4 8		
Accessing Array Elements: Indexing, Slicing, Iteration, Indexing with	Week 4 & Week 5		
Boolean Arrays	_		
Copy and Views	_		
Shape Manipulation	_		
Broadcasting	_		
Linear Algebra			
7 Data Manipulation With Pandas			
Introduction to Pandas			
Data Structures	7		
Series	7		
DataFrame	)		
Missing Values	Week 6		
Data Operations			
Data Standardization			
Pandas File Read and Write Support			
SQL Operation			
8 Machine Learning With Python			
Introduction to Machine Learning	_		
Machine Learning Approach	Week 7		
How Supervised and Unsupervised Learning Models Work			
Scikit-Learn			
Supervised Learning Models - Linear Regression	Week 8		
Supervised Learning Models: Logistic Regression	Week 9		
K Nearest Neighbors (K-NN) Model	Week 10		
Unsupervised Learning Models: Clustering	Week 11		
Unsupervised Learning Models: Dimensionality Reduction	Week 12		
Decision Tree and Random forest	Week 13		
	WCCK 13		
SVM Classifier			
SVM Classifier Pipeline			
SVM Classifier Pipeline Model Persistence	Week 14		
SVM Classifier Pipeline	Week 14		
SVM Classifier Pipeline Model Persistence	Week 14		
SVM Classifier  Pipeline  Model Persistence  Model Evaluation - Metric Functions  Feature engineering	Week 14		
SVM Classifier Pipeline Model Persistence Model Evaluation - Metric Functions Feature engineering  9 Data Visulization in Python using Matplotlib	Week 14		
SVM Classifier  Pipeline  Model Persistence  Model Evaluation - Metric Functions  Feature engineering  9 Data Visulization in Python using Matplotlib  Introduction to Data Visualization	Week 14		
SVM Classifier Pipeline Model Persistence Model Evaluation - Metric Functions Feature engineering  9 Data Visulization in Python using Matplotlib	Week 14		

	Line Properties Plot with (x, y)	Week 15
	Controlling Line Patterns and Colors	Week 15
	Set Axis, Labels, and Legend Properties	
	Alpha and Annotation	
	Multiple Plots	
	Subplots	
	Types of Plots and Seaborn	
10	NLP	Week 16
	Introduction to NLP	
	TF-IDF	
	Topic Modelling Using LDA	
11	Interview Questions	Week 17