			VTU Virtual Internship Program	WIINNR
WEEK	DAY	Module Name	Module content	LAB
1	1	Program Orientation	Course orientation ,Evaluation metrics,Evaluation Criteria,Live and Recorded	
	2	1 rogram orientation	Classes deails	Pre -Peoject Development Courses
	<del>-</del>	Pre-Project Development Courses	Agile principle,Scrum Framework,User stories, Repositories and Branching,	
	3		Pull Requests and Code Reviews,	
			GitHub Actions.  user-focused approach to solving problems through empathy, creativity, and	
	4		literation.	
	2	_	Scikit -learn overview and understanding of ML models	
2	3	Machine Learning Basics	Overview of Data Splitting and Model evaluation metrics	Pre -requisites of ML
	4		Data Aggreation using Python	
	1		Overview of machine learning, Key concepts, Types of machine learning,	LAB -exercise Based on ML and Case studies on Watson
	2		Supervised, unsupervised, and reinforcement learning,	
3		Introduction to Machine Learning and IBM Watson		
3	3		Machine learning workflow, Introduction to IBM Watson, Capabilities, features, and services,	
			reactives, and services,	
	4			
	1		Building a simple ML sample model using Watson	Lab -Advance Data Analytics and Data visualization using pandas
				pulled
	2	Exploratory Data Analysis (EDA)		
4			Data sources and types of data, handling missing data, Feature engineering.	
	3		Data transformation, Normalization, scaling, and encoding techniques	
	4		Data visualization, Data distributions, Data preprocessing with Pandas,	
	-		Cleaning and transforming a dataset.	
	1		tasks	Lab :Classification /regression Techniques using Supervised
5	2	Supervised Learning - Regression and Classification	models	Learning
	3	Regression and Classification	Logistic regression, building a regression model, Classification with decision	
			Transfer of the Control of the Contr	Like Charles and the Charles a
6	2	Unsupervised Learning and	Introduction to unsupervised learning, Clustering - K-means,	Lab :Clustering using unsupervised learning
_	3	Neural Networks	Dimensionality reduction , Hierarchical clustering	
_	1	Unsupervised Learning and	Principal component analysis (PCA),	Lab :Image classification Performace optimization
7	2	Neural Networks	Introduction to neural networks, and Architecture	
	3		Deep Learning,clustering with k-means	
	1		Building a neural network,Perceptron ,ANN	
8	2	Neural Networks	CNN -Image Classification, Understanding convolution layers, pooling, and	
	3		flattening	
	1		RNN ,Sequence learning and temporal dependencies	Lab :RNN -Digit recognition using MNIST Data Sets
9	2	Neural Networks	NAME (Sequence realiting and temporal dependencies	Lab .Kiviv -Digit recognition using mivior Data sets
	3		Types of RNNs: LSTM	
10	1	Natural Language Processing	Introduction to NLP, NLP pipeline and concepts,	Lab :Social Media Sentimental analysis
10	3	(NLP) and Model Evaluation	Text preprocessing, Classification techniques	
			Torrestant confides	
	1	Natural Language Processing	Bag of Words, TF-IDF, and word embeddings	Lab :Social Media Sentimental analysis
11	2	(NLP) and Model Evaluation	Model evaluation metrics	
	3	, ,	Cross-validation and hyperparameter tuning, Sentiment analysis.	
12				
13			Droject Work	
13			Project Work	
14				