

LTRC Remote Internship Schedule

	Course - Contents	Timeline	Instructor	Submission Deadline	Modules
Registration	Finalizing the registration list	23-03 to 25-03			
Preparation Week	Installation of python IDE tools and web-interfaces	27-03 to 30-03			
Sample data task	Pilot study	31-03-2023		06-03-2023	
Lecture-1	Python basics (data structures, flow controls, and functions)	08-04-2023	Ashok		<ol style="list-style-type: none"> 1. Data Structures 2. Flow controls 3. Functions
	Quiz-1	12-04-2023			
	Assignment-1			14-04-2023	
Lecture-2	Essential Libraries in python (Introduction to Numpy, pandas, and matplotlib)	15-04-2023	Gopichand		<ol style="list-style-type: none"> 1. Numpy 2. Pandas 3. Matplotlib
	Quiz-2	19-04-2023			
	Assignment-2			21-04-2023	
Lecture-3	Regular expressions, stop words, lemmatization, stemming, Tokenization and Challenges in tokenization and Zipf's Law	22-04-2023	Ashok		<ol style="list-style-type: none"> 1. Regular Expressions 2. Tokenization, stop words, lemmatization and stemming 3. Challenges in Tokenization 4. Zipf's Law
	Quiz-3	26-04-2023			
	Assignment-3			28-04-2023	

Lecture-4	Spelling mistake detection and correction with minimum edit distance, Chunking and NER, POS tagging	29-04-2023	Hiranmai Sri		<ol style="list-style-type: none"> 1. Minimum edit distance for spelling correction 2. POS Tagging 3. Chunking 4. NER
	Quiz-4	03-05-2023			
	Assignment-4			05-05-2023	
Lecture-5	Language Modeling, Smoothing techniques and HMM Intro	06-05-2023	Pavan		<ol style="list-style-type: none"> 1. Statistical Language Modeling 2. Smoothing 3. Hidden Markov Model
	Quiz-5	10-05-2023			
	Assignment-5			12-05-2023	
Lecture-6	Vector representations (word embeddings)	13-05-2023	Prashant		<ol style="list-style-type: none"> 1. Vector representations (BOW, TF-IDF) 2. Word embeddings (Word2vec, Glove, CoVe, ELMo)
	Quiz-6	17-05-2023			
	Assignment- 6			19-05-2023	
Lecture-7	Neural Networks basics and SLP, MLP	20-05-2023	Ananya		<ol style="list-style-type: none"> 1. Intro to biological Neurons 2. Single Layer Perceptron 3. Multi Layer Perceptron
	Quiz-7	24-05-2023			
	Assignment-7			26-05-2023	
Lecture-8	Classifiers Introduction	27-05-2023	Gopichand		<ol style="list-style-type: none"> 1. Intro to Classifiers <ol style="list-style-type: none"> a. Logistic Regression

					b. SVM c. MLP
	Quiz-8	31-05-2023			
	Assignment-8			02-06-2023	
Lecture-9	RNN, LSTM, GRU intro	03-06-2023	Lokesh		1. RNN 2. LSTM 3. GRU
	Quiz-9	07-06-2023			
	Assignment-9			09-06-2023	
Lecture-10	Introduction to Keras, Pytorch, and Tensorflow, Application s of NLP + summer internship projects description	10-06-2023	Ashok		1. Pytorch basics 2. Keras basics
	Quiz-10	14-06-2023			
	Assignment-10			16-06-2023	
Reserve Days		17-06 to 25-06			
Final selection List release		25-06-2023			

Note:

1. All the lectures are supposed to schedule on every saturday 5 to 6.30 PM
2. Pre-reading material for every lecture will be released on every thursday 5 PM
3. All the quizzes will be held on every wednesday 6 to 6.30 PM
4. Assignments will be released immediately after each lecture
5. Previous week assignment solutions will be released on every friday.