INDEX Blockchain

Sr.No	Date	Practical Title	Sign
1	11.02.2023	Practical No 1 Create blockchain with 3 blocks and hence display the entire blockchain, hash value and timestamp of each block.	
2	17.02.2023	Practical No 2 Create a smart Contract and Implement & demonstrate the use of solidity programming 1. Create a smart contract for Counter 2. Create a smart contract for Increment and decrement operator	
3	17.03.2023	Practical No 3 Create a Smart Contract in solidity program to demonstrate array and its types.	
4	24.03.2023	Practical No 4 1. Solidity program to demonstrate Comparison operators. 2. Solidity program to demonstrate Logical operators. 3. Solidity program to demonstrate Assignment operators. 4. Solidity program to demonstrate Ternary operators. 5. Solidity program to demonstrate Bitwise operators.	
5	31.03.2023	Practical No 5 Create smart contract in loops using Solidity Programming 1. Create a Smart contract for loop 2. Create a Smart contract while loop	

6	31.04.2023	Practical No 6 1. Create a smart contract to demonstrate Mathematical function. 2. Create a smart contract to demonstrate Function overloading.	
7	04.05.2023	Practical No 7 Create a Smart contract for 1.Implementation of Interface & 2.Inheritance	
8	08.05.2023	Practical No 8 Create smart contract for Selection of candidate in election.	
9	10.05.2023	Practical No 9 Write a solidity program to create an array of role no.& create a smart contract where it checks the value of roll no.s & perform AND operation with today's date DD and if the result is even display a message " Student is ALLOWED." else display "DENIED".	
10	11.05.2023	Practical No 10 Write a solidity program to find the sum of an array of ten numbers using loop the numbers are expected to be taken from the user, create a smart contract to find the AND operation of odd positioned numbers and OR operation of even positioned numbers including 0^{th} index. Hence find the product of the results and also identify whether the result is the part of array or not.	

INDEX NLP

SR.NO	PRACTICALS	DATE	SIGN
1	a. Install NLTK b. Convert the given text to speech c. Convert audio file Speech to Text.	25/05/24	
2	a. Study of various Corpus – Brown, Inaugural, Reuters, udhr with various methods like fields, raw, words, sents, categories, b. Create and use your own corpora(plaintext, categorical) c. Study Conditional frequency distributions Study of tagged corpora with methods like tagged_sents, tagged_words. d. Write a program to find the most frequent noun tags. e. Map Words to Properties Using Python Dictionaries f. Study DefaultTagger, Regular expression tagger, UnigramTagger g. Find different words from a given plain text without any space by comparing this text with a given corpus of words. Also find the score of words.	14/05/24	
3	a. Study of Wordnet Dictionary with methods as synsets, definitions, examples, antonyms. b. Study lemmas, hyponyms, hypernyms, entailments, c. Write a program using python to find synonym and antonym of word "active" using Wordnet d. Compare two nouns e. Handling stopword. Using nltk Adding or Removing Stop Words in NLTK's Default Stop Word List Using Gensim Adding and Removing Stop Words in Default Gensim Stop Words List Using Spacy Adding and Removing Stop Words in Default Spacy Stop Words List	28/05/24	
4	Text Tokenization a. Tokenization using Python’s split() function b. Tokenization using Regular Expressions (RegEx) c. Tokenization using NLTK d. Tokenization using the spaCy library e. Tokenization using Keras f. Tokenization using Gensim	23/03/24	
5	Illustrate part of speech tagging. a. Part of speech Tagging and chunking of user defined text.	29/04/24	

	b. Named Entity recognition of user defined text. c. Named Entity recognition with diagram using NLTK corpus – treebank		
6	a. Define grammer using nltk. Analyze a sentence using the same. b. Accept the input string with Regular expression of FA: 101+ c. Accept the input string with Regular expression of FA: (a+b)*bba d. Implementation of Deductive Chart Parsing using context free grammar and a given sentence.	28/05/24	
7	a.Study PorterStemmer, LancasterStemmer, RegexpStemmer, SnowballStemmer b.Study WordNetLemmatizer	11/05/24	
8	Implement Naive Bayes classifier	28/05/24	

INDEX DL

Sr. No.	Date	Aim	Sign
1	30/03/2024	Performing matrix multiplication and finding eigen vectors and eigen values using TensorFlow	
2	30/03/2024	Solving XOR problem using deep feed forward network	
3	04/04/2024	Implementing deep neural network for performing binary classification task	
4.a	25/04/2024	Using deep feed forward network with two hidden layers for performing classification and predicting the class	
4.b	25/04/2024	Using deep feed forward network with two hidden layers for performing classification and predicting the probability of class	
5	15/05/2024	Evaluating feed forward deep network for regression using KFold cross validation	
6	15/05/2024	Implementing regularization to avoid overfitting in binary classification using TensorFlow	
7	22/05/2024	Implementing Text classification with an RNN	
8	29/05/2024	Implementation of Autoencoders	
9	30/05/2024	Implementation of convolutional neural network to predict numbers from number images	
10	30/05/2024	Implementing Denoising of images using Autoencoder	