Index

Subject: Design and Analysis of Algorithms

| | Sr | Title of Experiments | Page | Date of | |
|-----|----|--|-------|--------------|--------|
| | No | | No | Performances | Submis |
| h . | 1. | Write a program non-recursive and recursive program to calculate Fibonacci numbers and analyze their time and space complexity. | 11-8 | 2/8/23 | 9181: |
| 2 | 2. | Write a program to implement Huffman Encoding using a greedy strategy. | 8-21 | 3/8/23 | 10/1 |
| | 3. | Write a program to solve a fractional Knapsack problem using a greedy method. | 21-28 | 918123 | 1618/ |
| | 4. | Write a program to solve a 0-1 Knapsack problem using dynamic programming or branch and bound strategy | 21-37 | 10/8/23 | 23/8 |
| | 5. | Design n-Queens matrix having first Queen placed. Use backtracking to place remaining Queens to generate the final n-queen's matrix. | 37 - | 16/8/23 | 24/8 |
| 6 | | Mini Project | 54- | 2/8/23 | 26 |

CERTIFICATE

Index

| | | Subject – Machine Learning | | | | |
|----|-----|--|-------|--------------|------|--|
| | Sr | Title of Experiments | Page | Date of | | |
| | No | | No | Performances | Subn | |
| | 1. | Implement Gradient Descent Algorithm to find the local minima of a function. For example, find the local minima of the function $y=(x+3)^2$ starting from the point $x=2$. | 1-4 | 318/3 | 31/2 | |
| | 2. | Classify the email using the binary classification method. Email Spand detection has two states: a) Normal State – Not Spam, b) Abnormal State – Spam. Use K-Nearest Neighbors and Support Vector Machine for classification. Analyze their performance. | 5-10 | 24/8/23 | 131 | |
| 3. | c | mplement K-Nearest Neighbors algorithm on diabetes.csv dataset. Compute confusion matrix, accuracy, error rate, precision and recall on the given dataset. | 11-17 | 31/8/23 | 15/ | |
| 4. | | alustoning | 18-29 | 1319/23 | 20[| |
| 5. | F | Predict the price of the Uber ride from a given pickup point to the agreed drop-off location. | 30-39 | 24/9/23 | 21/9 | |
| 6. | N N | Mini-Project | 60-45 | 2/8/24 | 26/ | |

Index
Subject: Block Chain Technology

| | 11 | | | | | |
|----|--|---------|--------------|---------|--|--|
| S | r Title of Experiments | Page | Date | of | | |
| N | о | No | Performances | Submiss | | |
| 1. | Installation of MetaMask and study spending Ether per transaction. | 1-4 | 27/19/23 | 5 1 tol | | |
| 2. | Create your own wallet using Metamask for crypto transactions. | 5-9 | 5/10/23 | 11/10/2 | | |
| 3. | Write a smart contract on a test network, for Bank account of a customer for following operations: • Deposit money • Withdraw Money • Show balance | | | 18/10) | | |
| 4. | Write a survey report on types of | 14-19 | 19/10/pg | 25/10 | | |
| | Write a program in solidity to create Student data. Use the following constructs: • Structures • Arrays • Fallback Deploy this as smart contract on Ethereum | 20-23 | 25/10/2 | 26/10 | | |
| | and Observe the transaction fee and Gas | 4=27 | 218/23 | 26/10 | | |
| | | ABJED V | | | | |