**Global academy of technology**

*Ideal Homes Township, Rajarajeshwari Nagar, Bengaluru – 560 098*

**Department of Computer Science & Engineering**

**(Accredited by NBA 2022-2025)**

**Assignment**

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| Department: **Computer Science & Engineering** | | | | Academic Semester: **Odd 2022-23** |
| Semester: **7** | Section: C | Course Code: **18CS72** | | Contact Hours /week**: 4** |
| Course name: **Big Data & Analytics** | | | | # of credits: **4** |
| Teacher’s name: **Reshma S** | | | | Designation: **Asst. Professor** |
| CIE: **40** | | | SEE:**60** | Exam Hours: **03** |

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| Module 1 | Discuss the the characteristics of Big Data and its Evolution. | CO1 | 1 MARK |
| Module 2 | Illustrate the core components of Hadoop with neat diagram. | CO2 | 1 MARK |
| Module 3 | Illustrate the key value pairs in data architectural patterns with an example | CO3 | 1 MARK |
| Module 4 | Discuss the pig Latin data types and examples | CO4 | 1 MARK |
| Module 5 | Presentation & Report | CO5 | 5 +1 MARKS |
|  |  |  | 10 MARKS |

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| 1 | 5 | Presentation Topics | Students Roll number | Date |
| 2 | **Machine Learning Algorithms for Big Data Analytics:** Introduction | 1 - 4 | 05-12-2022 |
| 3 | Estimating the relationships | 5-9 | 06-12-2022 |
| 4 | Outliers, Variances, Probability Distributions, and Correlations | 10-16 | 08-12-2022 |
| 5 | Regression analysis, | 17-22 | 12-12-2022 |
| 6 | Finding Similar Items, Similarity of Sets and Collaborative Filtering | 23-28 | 13-12-2022 |
| 7 | Frequent Item sets and Association Rule Mining | 29-35 | 15-12-2022 |
| 8 | **Text, Web Content, Link, and Social Network Analytics:** Introduction Text mining, | 36-39 | 19-12-2022 |
| 9 | Web Mining, Web Content and Web Usage Analytics | 40-47 | 20-12-2022 |
| 10 | Page Rank, Structure of Web | 48-53 | 22-12-2022 |
| 11 | Analysing a Web Graph | 54-59 | 26-12-2022 |
| 12 | Social Network as Graphs | 60-66 | 27-12-2022 |
| 13 | Social Network Analytics | 67-71 | 29-12-2022 |
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