MONARK UNIVERSITY

RUDRA GOSWAMI COLLEGE OF COMPTER APPLICATION

WORKSHOP REPORT

Name of Activity/Event:	**Workshop on Navigating the Landscape of Data Science and Big Data Analytics**				
Name of Organizing Body (Institute/Department):	**Bachelor of Computer Application**				
Sponsoring Agency:	**MU**			**Amount in Rs. (if any):**	**4000/- Rs**
Academic Year:	**2024**			**Date of Event:**	**08/02/2024 & 09/02/2024**
Total No. of Participants (Students):	**37**	**Male:**	**29**	**Female:**	**8**
Total No. of Participants (Faculty):	**1**	**Male:**	**0**	**Female:**	**1**
Name of Faculty Coordinator:	**Prof. Vandana Sharma**				
Email Id:	**vandana.sharma.foca@monarkuni.ac.in**			**Contact No.:**	**9714161282**
Name of Student Coordinator:	**Panikar Ajish Ajit**				
Email Id:	**ajishpanikar998@gmail.com**			**Contact No.:**	**9104366314**

Details of Activity:

Workshop Title: Navigating the Landscape of Data Science and Big Data Analytics

Duration: 2 Days (8th February 2024 - 9th February 2024)

Day 1: 8th February 2024

Introduction and Welcome

- Overview of the workshop objectives and agenda.
- Introduction of the speakers: Archana Singh and Dr. Sejal Bhavsar, Co-Founders of InfiVidhya.

Keynote Address: Understanding Data Science and Big Data Analytics

- Archana Singh and Dr. Sejal Bhavsar provide an overview of data science and big data analytics, their importance, and their applications across various industries.

Session 1: Foundations of Data Science

- Topics covered:
  - Introduction to data types and data structures.
  - Basics of statistical analysis and probability.
  - Overview of machine learning algorithms.

Lunch Break

- Time: 12:00 PM - 1:00 PM

Session 2: Exploring Big Data Technologies

	• Introduction to big data technologies such as Hadoop, Spark, and NoSQL databases. • Real-world examples and case studies demonstrating the application of big data technologies. **Session 3: Data Visualization and Interpretation** • Importance of data visualization. • Tools and techniques for effective data visualization. • Hands-on exercises using popular data visualization tools. **Day 2: 9th February 2024** **Recap and Q&A Session** • Recapitulation of Day 1 topics. • Open floor for participants to ask questions and seek clarifications. **Session 4: Advanced Topics in Data Science** • Deep dive into advanced machine learning algorithms such as neural networks, deep learning, and natural language processing. • Discussion on the latest trends and advancements in data science. **Lunch Break** • Time: 12:00 PM - 1:00 PM **Session 5: Case Studies and Industry Applications** • Presentation of real-world case studies demonstrating the application of data science and big data analytics in various industries. • Interactive discussion on challenges faced and lessons learned. **Session 6: Future Directions and Closing Remarks** • Insights into the future of data science and big data analytics. • Closing remarks by Archana Singh and Dr. Sejal Bhavsar. This workshop aims to provide participants with a comprehensive understanding of data science and big data analytics, equipping them with the knowledge and skills required to navigate the rapidly evolving landscape of data-driven technologies.
Outcome:	**Foundational Understanding:** Participants gain a comprehensive understanding of the fundamental concepts of data science and big data analytics, including data types, structures, statistical analysis, and machine learning algorithms. **Awareness of Big Data Technologies:** Attendees are introduced to various big data technologies such as Hadoop, Spark, and NoSQL databases, understanding their significance and applications in managing and analyzing large volumes of data. **Data Visualization Skills:** Participants acquire skills in data visualization, learning to effectively communicate insights through visual representations. They gain hands-on experience with popular data visualization tools, enabling them to create compelling visualizations. **Advanced Machine Learning Knowledge:** Attendees delve into advanced

	machine learning algorithms, including neural networks, deep learning, and natural language processing. They understand how these algorithms are applied in solving complex problems and analyzing unstructured data. **Real-World Case Studies:** Through presentations of real-world case studies, participants gain insights into the practical applications of data science and big data analytics across various industries. They learn how these technologies are used to drive business growth, enhance decision-making, and solve challenges. **Interactive Learning:** The workshop fosters an interactive learning environment, allowing participants to engage in discussions, ask questions, and collaborate with peers. This facilitates knowledge exchange and deeper understanding of the subject matter. **Future Trends and Directions:** Attendees gain insights into the future trends and advancements in data science and big data analytics. They understand emerging technologies and industry developments, preparing them to stay updated and adapt to evolving trends in the field. **Networking Opportunities:** Participants have the opportunity to network with industry experts, including the speakers, Archana Singh and Dr. Sejal Bhavsar, co-founders of InfiVidhya. This enables them to build professional connections and explore potential career opportunities in the field of data science and big data analytics. Overall, the workshop equips participants with the knowledge, skills, and resources needed to navigate the dynamic landscape of data science and big data analytics, empowering them to leverage data-driven insights for organizational success and innovation.
Awards (if Any):	**Certificates to the Participated Students**

Photographs of Event

Faculty Coordinator:
Prof. Vandana.D.Sharma

Dean:
Prof. Shudha Patel