



भारत सरकार  
इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालय  
राष्ट्रीय सूचना-विज्ञान केन्द्र  
ए-ब्लॉक, केन्द्रीय कार्यालय परिसर, लोधी रोड,  
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Government of India  
MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY  
NATIONAL INFORMATICS CENTRE  
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Ref: NIC-DADF/2021/019

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**TO WHOMEVER IT MAY CONCERN**

This is to certify that **Mr. VIBHAV BHAT**, student of Nitte Meenakshi Institute of Technology, Bangalore, has successfully worked as an intern with National Informatics Centre (NIC), Government of India, from August 2020 to November 2020. During this period, he worked on a Project aimed at building an Interactive Analytics Dashboard for the Department of Animal Husbandry and Dairying, Government of India, to monitor the vaccination and artificial insemination status of cows in recognized farms and insemination centers across various states in North India.

**Mr. Vibhav** was part of the team that performed the following activities: -

1. Combine data from multiple tables using precise and optimized SQL queries to create dataset suitable for visualization.
2. Perform data cleaning and preparation to ensure the dataset is accurate and ready for analysis and visualization.
3. Use the indigenous Visual Intelligence tool – **TEJAS** to perform the Exploratory data analysis and build the dashboard using appropriate filters and drill-downs.

He accomplished high levels of learning and professionalism with a determination to deliver his responsibilities within the allotted time. This performance is highly admirable, and the team is proud of his contributions.

(Nagaraj Kulkarni)  
Senior Technical Director

नागराज कुलकर्णी / NAGARAJ KULKARNI  
वरिष्ठ तकनीकी निदेशक / Senior Technical Director  
राष्ट्रीय सूचना विज्ञान केन्द्र  
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