

“Hospital Bed Availability Checking”

**A Project Report Submitted to
Rajiv Gandhi Proudhyogiki Vishwavidyalaya**



**Towards Partial Fulfillment for the Award of
Bachelor of Engineering in Computer Science & Engineering**

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EXAMINER APPROVAL

The Project entitled “**Hospital Bed Availability Checking**” submitted by **Ansh Joshi (0827CS201036)**, **Bhavik Mundra (0827CS201057)**, **Bhavik Sharma (0827CS201058)** and **Bhavika Darpe (0827CS201059)** has been examined and is hereby approved towards partial fulfillment for the award of **Bachelor of Technology degree in Computer Science** discipline, for which it has been submitted. It understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expressed or conclusion drawn therein, but approve the project only for the purpose for which it has been submitted.

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GUIDE RECOMMENDATION

This is to certify that the work embodied in this project entitled “**Hospitals Beds Availability Checking Website**” submitted by **Ansh Joshi (0827CS201036)**, **Bhavik Mundra (0827CS201057)**, **Bhavik Sharma (0827CS201058)** and **Bhavika Darpe (0827CS201059)** is a satisfactory account of the bonafide work done under the supervision of **Prof. Ronak Jain**, is recommended towards partial fulfillment for the award of the Bachelor of Engineering (Information Technology) degree by Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal.

(Project Guide)

(Project Coordinator)

STUDENTS UNDERTAKING

This is to certify that a project entitled “**Hospitals Beds Availability Checking Website**” has been developed by us under the supervision of **Prof. Ronak Jain**. The whole responsibility of work done in this project is ours. The sole intention of this work is only for practical learning and research.

We further declare that to the best of our knowledge, this report does not contain any part of any work which has been submitted for the award of any degree either in this University or in any other University / Deemed University without proper citation and if the same work found then we are liable for explanation to this.

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Executive Summary

Hospital Bed Availability Checking

This project is submitted to Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal(MP), India for partial fulfillment of Bachelor of Engineering in Information Technology branch under the sagacious guidance and vigilant supervision of **Prof. Ronak Jain**.

The project is based on Deep Learning , which is a sub field of machine learning, concerned with algorithms inspired by the structure and function of the brain called artificial neural networks. In the project, TensorFlow is used , which is an open-source software library created by Google for machine learning applications. It is used for detecting, identifying and tracking objects through the camera in real time. The project uses a pre-trained model on Microsoft Common Objects in Context (COCO) data set, which contains approximately all common objects. The purpose of this project is to implement 'Students and vehicles counter' in the college in real-time.

Key words: Flask, SQLAlchemy, database

“Plans are only good intentions unless they immediately degenerate into hard work.”

– Peter Drucker

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