"Hospital Bed Availability Checking"

A Project Report Submitted to
Rajiv Gandhi Proudyogiki Vishwavidyalaya

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

Submitted by:
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Guided by:
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Acropolis Institute of Technology & Research, Indore
July – Dec 2022

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.

(Internal Examiner) **(External Examiner)**

Date: **Date:**

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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Acknowledgement

We thank the almighty Lord for giving me the strength and courage to sail out through the tough and reach on shore safely. There are a number of people without whom this project's work would not have been feasible. Their high academic standards and personal integrity provided me with continuous guidance and support.

We owe a debt of sincere gratitude, deep sense of reverence and respect to our guide and mentor **Prof. Ronak Jain**, Professor, AITR, Indore for his motivation, sagacious guidance, constant encouragement, vigilant supervision and valuable critical appreciation throughout this project work, which helped us to successfully complete the project on time.

We express profound gratitude and heartfelt thanks to **Dr. Kamal Kumar Sethi**, HOD CSE, AITR Indore for his support, suggestion and inspiration for carrying out this project. I am very much thankful to other faculty and staff members of CSE Dept, AITR Indore for providing me all support, help and advice during the project. We would be failing in our duty if we do not acknowledge the support and guidance received from **Dr. S C Sharma**, Director, AITR, Indore whenever needed. We take the opportunity to convey my regards to the management of Acropolis Institute, Indore for extending academic and administrative support and providing me all necessary facilities for the project to achieve our objectives.

We are grateful to **our parents** and **family members** who have always loved and supported us unconditionally. To all of them, we want to say “Thank you”, for being the best family that one could ever have and without whom none of this would have been possible.

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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

List of Figures

Table of Contents