

# GOOGLE SEARCH USING ROBOTIC PROCESS AUTOMATION

A PROJECT REPORT

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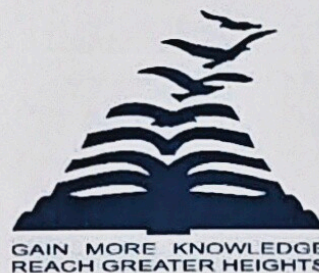
*in partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**At**



**PRESIDENCY UNIVERSITY**

**BENGALURU**

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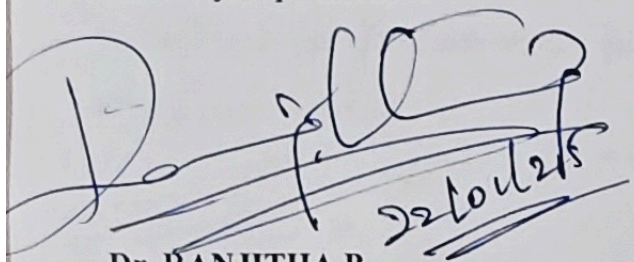


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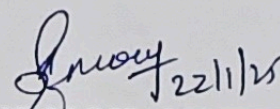
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### CERTIFICATE

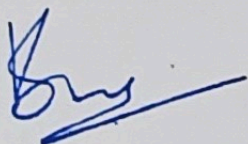
This is to certify that the Project report **GOOGLE SEARCH USING ROBOTIC PROCESS AUTOMATION** being submitted by **Mr. SUFYAAN AHMED M, Mr. OWAIS HUSSAIN and Mr. MOHAMMED FOUZAN** bearing roll numbers **20211CSE0150, 20211CSE0802 & 20211CSE0869** in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a Bonafide work carried out under my supervision.



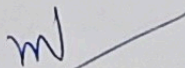
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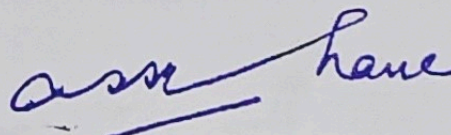
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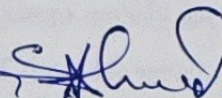
### DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **GOOGLE SEARCH USING ROBOTIC PROCESS AUTOMATION** in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Dr. Ranjitha P, Asst. Prof-CSE, School of Computer Science and Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

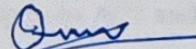
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## ABSTRACT

The rapid growth of the travel and hospitality industry has led to increased demand for accurate and up-to-date information about hotels. Traditional manual data collection methods are time-consuming, prone to errors, and often fail to provide real-time data. This paper presents an automated system for retrieving and analyzing hotel data using the Booking.com API. The system is set up to extract hotel information by location and dates specified by users, process this information, and save it to an Excel file for further processing, this study researches the issue of getting access to fast and accurate information about travel products. The proposed automatic system will employ the Booking.com API in extracting hotel information from the web page, which would include a hotel's ID, name, description, rank, country code, and ratings. The Python implementation is made for the developed system with built-in error handling capabilities and strong data processing.

Fetch destination ID based on the user-input location, retrieve the hotel data with that destination ID, process the data retrieved, and save the processed data in an Excel file. The system takes check-in and checkout dates input from the user, allowing them to choose travel dates, the results show that the automated system is efficient and accurate. It can retrieve and process hotel data with the utmost precision and store it in a structured format to enable easy analysis. The time and effort put into collecting the data are highly minimized by this automated approach, unlike manual approaches, the discussion of this automated system mainly focuses on benefits such as enhanced data accuracy and real-time retrieval of data. However, this system has a few limitations in terms of being dependent on the Booking.com API and the existence of rate limits. Future work could be dedicated to enhancing capabilities, such as integrating additional data sources and improving analysis techniques for better data analysis.

In conclusion, this research paper gives a practical and efficient solution to the automated retrieval and analysis of hotel data. The automated system developed in this study has the potential to revolutionize data collection methods in the travel and hospitality industry, providing accurate and up-to-date information for better decision-making.

**Keywords:** Automated data retrieval, Booking.com API, hotel data analysis, travel industry, Python, data processing, Excel