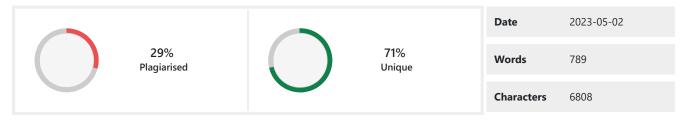


### **PLAGIARISM SCAN REPORT**



# **Content Checked For Plagiarism**

Tribhuvan University Orchid International College

A Final Year Project Report

On

ELECTRIC VEHICLE CHARGING STATION RECOMMENDATION SYSTEM USING COLLABORATIVE FILTERING

Under the Supervision of

Er. Utsab Koirala

Lecturer

Orchid International College

Submitted To:

Orchid International College

In partial fulfillment of the requirement for the Bachelor Degree in Computer Science and Information Technology

Submitted By:

Rajat Budhathoki (20820/075) Bipin Chaudhary (20800/075) Abhinna Ojha (20788/075)

April, 2023

#### SUPERVISOR'S RECOMMENDATION

I hereby recommend that the report prepared under my supervision by Rajat Budhathoki (20820/075), Bipin Chaudhary (20800/075), Abhinna Ojha (20788/075) entitled "Electric Vehicle Charging Station Recommendation System using Collaborative Filtering" in partial fulfilment of the requirements for the degree of B.Sc.

in Computer Science and Information Technology be processed for evaluation.

...... Er. Utsab Koirala Lecturer Orchid International College Bijayachowk, Gaushala CERTIFICATE OF APPROVAL This is to certify that this project prepared by Rajat Budhathoki (20820/075), Bipin Chaudhary (20800/075), and Abhinna Ojha (20788/075) entitled "Electric Vehicle Charging Station Recommendation System using Collaborative Filtering" in partial fulfilment of the requirements for the degree of B.Sc. in Computer Science and Information Technology has been well studied. In our opinion, it is satisfactory in the scope and quality as a project for the required degree. Er. Utsab Koirala Supervisor, Lecturer, Orchid International College, Bijayachowk, Gaushala \_\_\_\_\_ Er. Dhiraj Kumar Jha Head Of Department, Orchid International College, Bijayachowk, Gaushala \_\_\_\_\_ Ms. Sikha Sharma Internal Examiner, Full Time Faculty, Orchid International College, Bijayachowk, Gaushala **External Examiner** Central Department of Computer Science and IT Tribhuvan University

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Rajat Budhathoki (20820/075)

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**ABSTRACT** 

As charging an EV is not as fast and only some charging stations are equipped with fast charging port, EV drivers and owners face a dilemma on whether a certain location even has a charging station or not, and is the charging station is suitable for them or not. This system aims to provide users a web-based platform that can recommend the potentially suitable charging station to them. The system will be developed in Laravel, utilising its capabilities for potent web development and efficient database management. The proposed system provides personalized recommendations to users based on their charging needs and preferences, making it easier for them to find and use charging stations. The results of our evaluation demonstrate the effectiveness and efficiency of the proposed system in recommending charging stations to users.

Keywords: Electric Vehicle (EV), Charging Station, Recommendation System, Cosine Similarity, Weighted Average, Laravel

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