

ECO DRIVE

A PROJECT REPORT

Submitted by,

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Under the guidance of,

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Assistant Professor

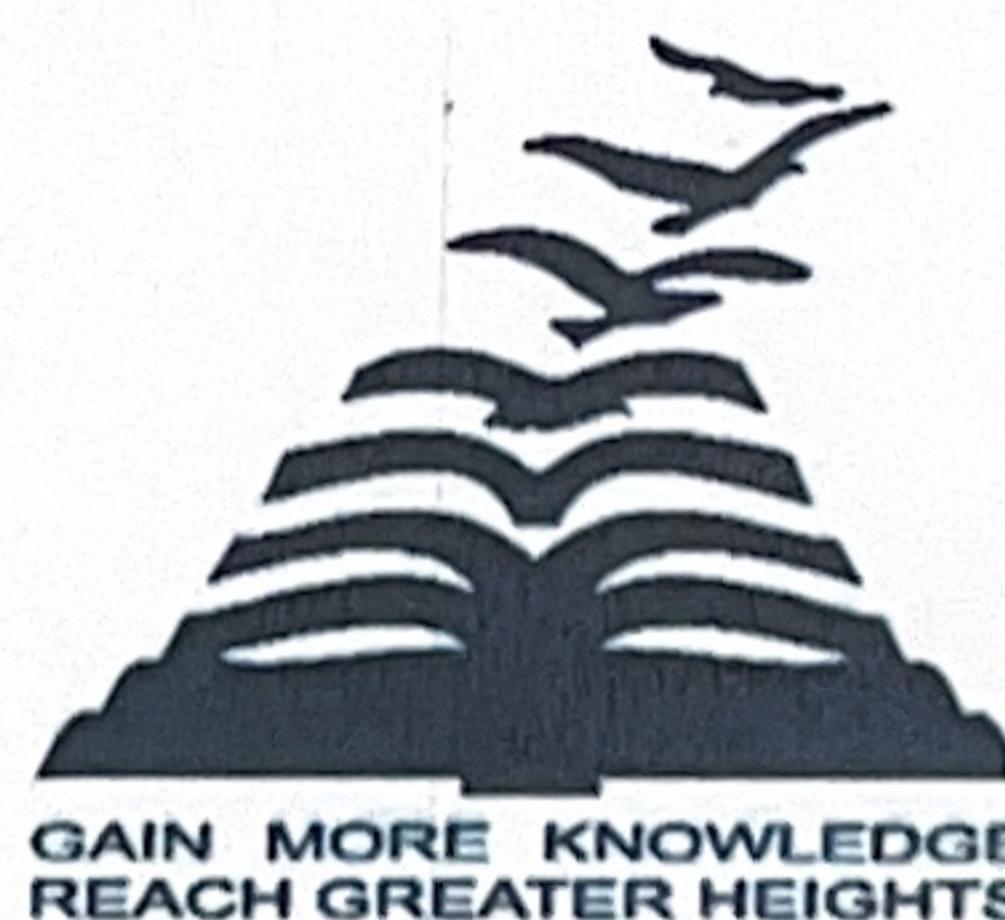
in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND TECHNOLOGY

AT



PRESIDENCY UNIVERSITY

BENGALURU

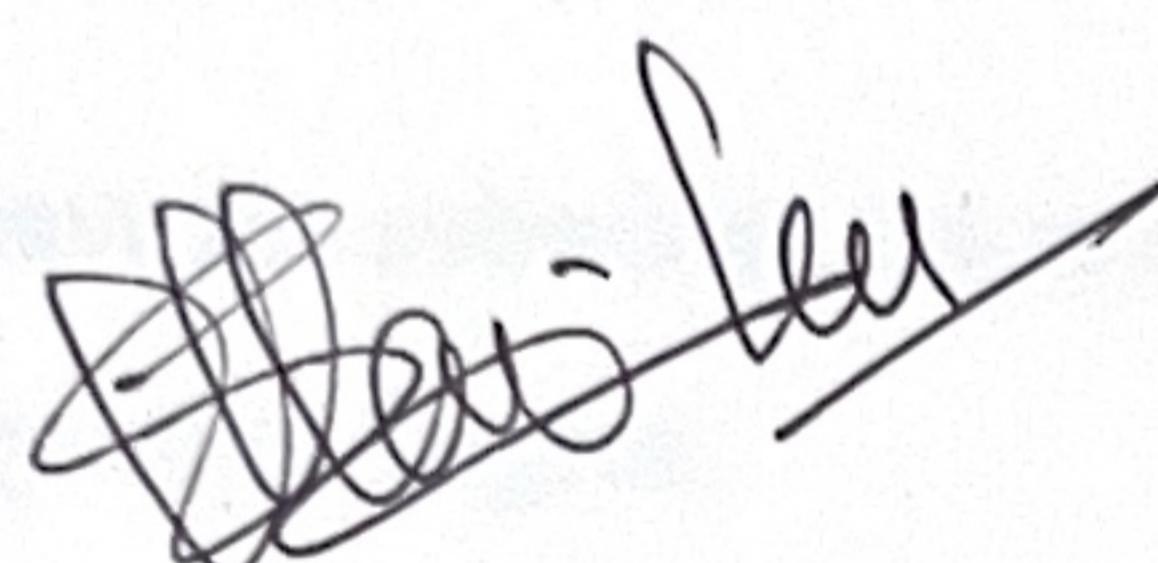
JANUARY 2025

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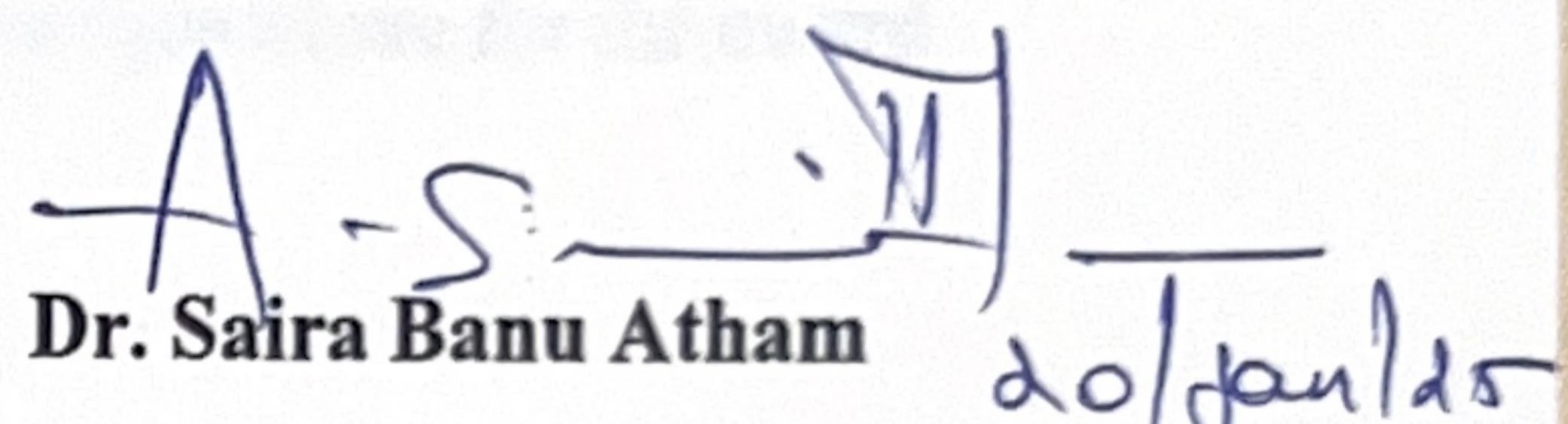
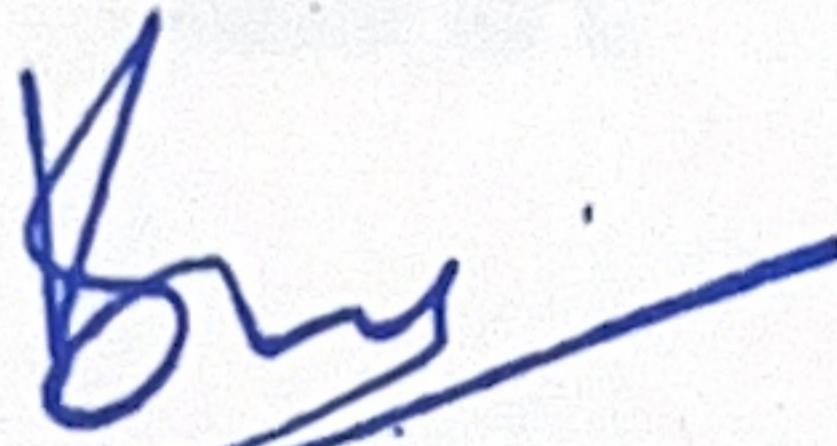
SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

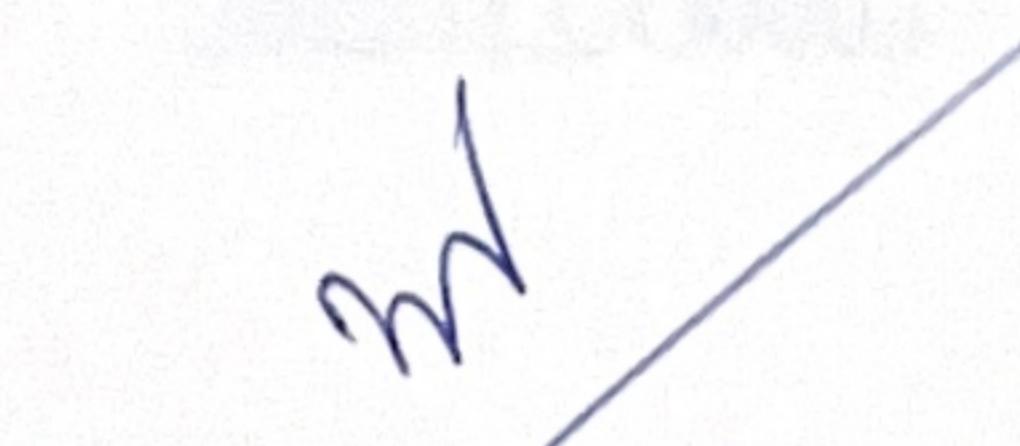
This is to certify that the Project report “ECO-DRIVE” being submitted by “G Nithin, Jayanth V, Swaroop R S, Lohith M C” bearing roll number(s) 20211CSG0030, 20211CSG0012, 20211CSG0034, 20221LCG0003” in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Technology is a Bonafide work carried out under my supervision.



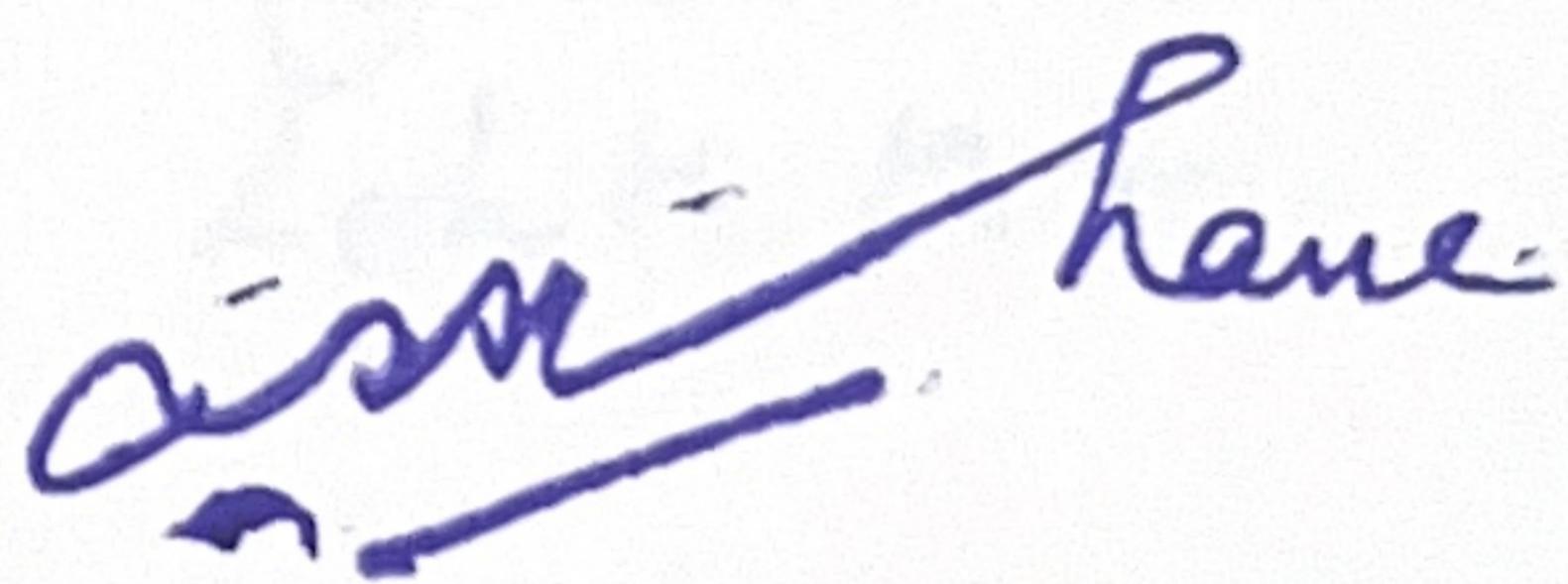
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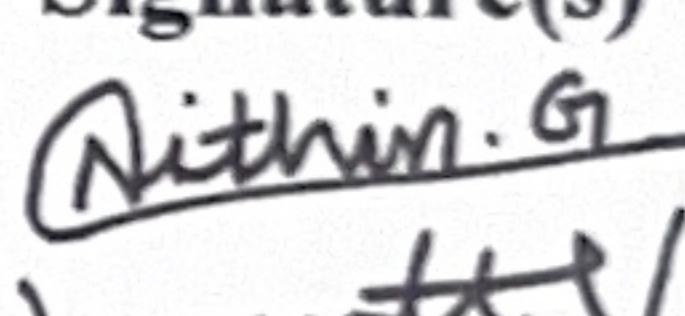
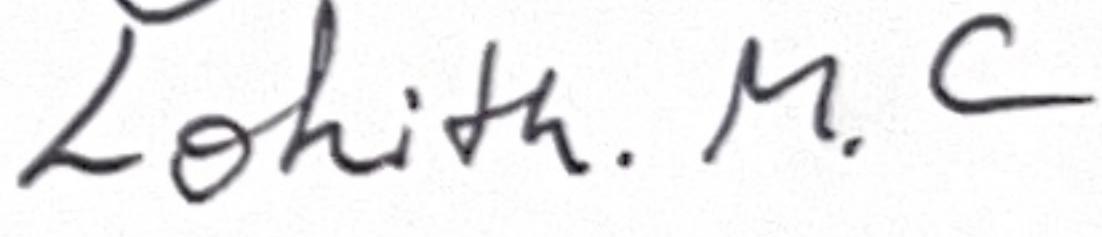
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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **ECO-DRIVE** -in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Technology**, is a record of our own investigations carried under the guidance of **Mr. Lakshmisha S Krishna, Assistant Professor, School of Computer Science Engineering, Presidency University, Bengaluru.**

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

Name(s)	Roll no(s)	Signature(s)
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ABSTRACT

Eco Drive is a mobile application developed to address the pressing issue of vehicular emissions, one of the largest contributors to urban air pollution. By combining automated carbon footprint tracking with gamification and community engagement, Eco Drive encourages users to adopt eco-friendly travel habits. The application analyzes commute data using smartphone sensors to estimate carbon emissions and awards points for improvements in travel choices. In this paper, we present the design, implementation, and evaluation of the Eco Drive application, demonstrating its efficacy in reducing carbon footprints and fostering sustainable travel practices.

Index Terms—Carbon Footprint, Eco-Friendly Travel, Gamification, Smartphone Sensors, Mobile Application Development, Community Engagement, Sustainable Development Goals (SDG).

ACKNOWLEDGEMENT

First of all, we indebted to the **GOD ALMIGHTY** for giving me an opportunity to excel in our efforts to complete this project on time.

We express our sincere thanks to our respected dean **Dr. Md. Sameeruddin Khan**, Pro-VC, School of Engineering and Dean, Presidency School of Computer Science and Engineering for getting us permission to undergo the project.

We express our heartfelt gratitude to our beloved Associate Deans **Dr. Shakkeera L** and **Dr. Mydhili Nair**, Presidency School of Computer Science and Engineering, and **Dr. Saira Banu Atham**, Head of the Department, Presidency School of Computer Science and Engineering, for rendering timely help in completing this project successfully.

We are greatly indebted to our guide **Mr. Lakshmisha**, Assistant Professor and Reviewer **Dr. Srabana Pramanik**, Assistant Professor - Senior Scale, Presidency School of Computer Science and Engineering, for his/her inspirational guidance, and valuable suggestions and for providing us a chance to express our technical capabilities in every respect for the completion of the project work.

We would like to convey our gratitude and heartfelt thanks to the PIP2001 Capstone Project Coordinators **Dr. Sampath A K**, **Dr. Abdul Khadar A** and **Mr. Md Zia Ur Rahman**, department Project Coordinators **Dr. Manjula H M** and Git hub coordinator **Mr. Muthuraj**.

We thank our family and friends for the strong support and inspiration they have provided us in bringing out this project.

G Nithin

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Swaroop R S

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