**STUDENT DECLARATION**

I hereby declare that the work being presented in this report entitled **“WEATHER FORECASTING”** is an authentic record of my own work carried out under the supervision of **“Ms. Neelam Yadav”..**

**Date:** **Signature of Student**

**Ankit jayasawal**

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

**Signature of HOD** **Signature of Internal**

**Prof. (Dr.) Devendra Kumar** **Ms. Neelam Yadav**

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**Date:**

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**ABSTRACT**

The Weather Forecasting System is a web-based application developed using **Golang** for the backend and **ReactJS** for the frontend. This system is designed to provide users with real-time weather updates for any city by integrating with third-party APIs such as OpenWeather. The application allows users to input a city name and instantly receive current weather information, including temperature, humidity, weather conditions, and "feels like" data, presented through a clean and responsive interface.

Built with a focus on efficiency and scalability, the backend leverages

Golang’s performance and simplicity to handle API requests, parse JSON responses, and ensure fast data delivery. The frontend, styled with **Material-UI**, uses **Axios** for seamless communication with the backend. Environment variables are managed securely using godotenv to protect sensitive API keys.

The system supports real-time interaction, making it suitable for multiple users to access accurate and timely weather information simultaneously. This application aims to offer a lightweight, high-performance solution for weather forecasting, providing users with an intuitive and reliable platform for everyday use.

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