**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”.**

The matter embodied in this report has not been submitted by me for the award of any other degree.

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

**Ankit jayasawal**

**Dept.: Computer Applications**

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 Supervisor Prof.**

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

**HOD-MCA Assistant Professor**

**Dept.: Computer Applications (Sr. Scale)**

**Date:**

**CERTIFICATE**

This is to certify that Project Report entitled **“WEATHER FORECASTING”** which is submitted by **ANKIT JAYASAWAL** in partial fulfillment of the requirement for the award of degree **Master of Computer Application** in Department of Computer Applications of **Dr. A.P.J. Abdul Kalam Technical University,** is a record of the candidate own work carried out by him under my supervision.

The matter embodied in this Major Project Report is original and has not been submitted for the award of any other degree.

The plagiarism percentage evaluated for the content presented is **Six Percent.**

**Supervisor Signature**

**Ms. Neelam Yadav**

**Assistant Professor**

**Date: (Sr. Scale)**

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**Signature of Student**

**ANKIT JAYASAWAL**

**2300320140022**

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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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