Enrollment no: 210280116082



NAME OF STUDENT: VINAYAK TUSHARBHAI CHAVDA

DIARY OF THE WEEK: Dt: 31/03/2025 TO 04/04/2025

DEPARTMENT: INFORMATION TECHNOLOGY SEM: 8th

NAME OF THE ORGANISATION: BUCHANAN TECHNOLOGIES LLP

NAME OF THE PLANT/SECTION/DEPARTMENT: EMERGING TECHNOLOGIES

NAME OF OFFICER INCHARGE OF THE PLANT/SECTION/DEPARTMENT: HARDIK SHETH

**This week**, I continued progressing through my React learning series, focusing particularly on state management. I explored both the built-in **Context API** and the widely-used **Redux** library, gaining a better understanding of how each manages application state effectively.

Midweek, I completed a **weather API project** using **FastAPI** in Python. As part of this, I integrated **Redis** to handle caching and improve performance. After finishing the core functionality, I made enhancements by adding additional endpoints and learning about **multithreading** in Python to better manage concurrent operations.

Toward the end of the week, I began a new project called **eCoder**—a platform where developers can write, run, and save code. I designed the initial **landing page** and laid out the project structure, setting the foundation for continued development in the coming days.



**TOTAL HOURS: 40 HOURS**

**SIGNATURE OF STUDENT**

**The above entries are correct and the grading of work done by Trainee is EXCELLENT / VERY GOOD / GOOD / FAIR / BELOW AVERAGE / POOR**

**Signature of Faculty Mentor**

**Signature of officer-in-charge of Dept. / Section / Plant**

**Date:**

**Date:**

**Grading of Work, for trainee may be given depending upon your judgement about his Punctuality, Regularity, Sincerity, Interest taken, Work done etc.**

