Day 13 – 11 July 2025 (Friday):

Implementation of Mood Analyzer Agent

Today's session focused on the **practical implementation of the Mood Analyzer agent**, one of the key components of the Mental Health Support Bot. The goal was to make the agent capable of understanding human emotions based on textual input. Using prompt-based sentiment detection, the system was designed to classify user messages into three categories — **Happy**, **Sad**, or **Neutral**.

We began by exploring how text sentiment analysis works conceptually, followed by applying it through the **OpenAI API** within the CrewAI framework. Multiple prompt versions were tested to improve the accuracy of emotion classification. I experimented with refining the input format and response patterns to ensure that subtle differences in tone, such as "I'm fine" versus "I guess I'm okay," were recognized correctly.

Debugging involved testing various emotional statements and checking consistency in output across different contexts. The mentor guided us on improving reliability by using examples and temperature control within prompts to maintain balanced responses.

Learning Outcome:
Developed hands-on experience in **emotion classification**, **prompt engineering**, and **fine-tuning sentiment analysis** for conversational agents—laying the foundation for deeper emotional intelligence in AI systems.