Summer Training TR-103 Prompt Engineering

Day 13 Report

What is a Function?

A function is a reusable block of code created to perform a specific task. Functions make code modular, avoid repetition, and separate logic for better readability and testing.

What is Function Calling?

Function calling is the process of invoking a function in code. It is important for executing specific tasks, managing multiple features in a program, and integrating AI or API-based interactions in real-time applications.

Simple Function Implementation: name()

We implemented a basic function name() that required no input and returned a hardcoded output such as “Hello, I am Josh”. This activity helped us understand function definition, invocation, and return values in Python.

Multiple Function Calling – Interactive System

We created multiple functions to simulate a basic personal assistant:

• name(): Returns the name of the assistant or user.

• quotes(): Provides a random motivational quote.

• health_tips(): Suggests hydration reminders, breathing exercises, and nutrition tips.

• weather(): Integrated with a Weather API to fetch real-time data including temperature, weather description, humidity, and wind speed. This demonstrated API requests, JSON parsing, and live data handling.

Function Calling for Cricket Live Scores

We implemented a live cricket score tracker using criAPI with the following features:

• live_score(): Displayed current match details such as teams, runs, overs, wickets, and status.

• match_summary(): Provided an overall game overview.

• player_stats(): Showed top performer information.

This task involved handling API keys securely, fetching live data through Python's requests module, parsing JSON, and structuring the results into user-friendly outputs.