

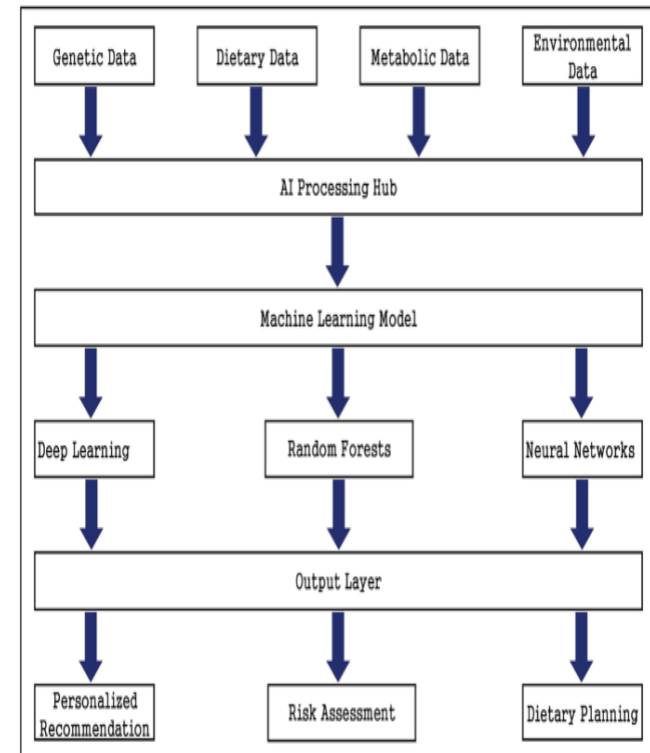
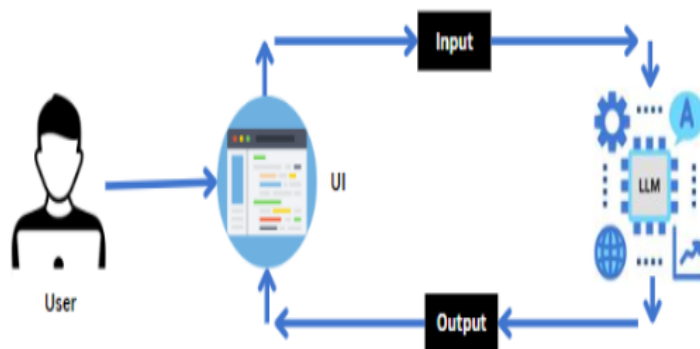
Project Design Phase-II

Data Flow Diagram & User Stories

Date	10 January 2026
Team ID	LTVIP2026TMIDS66228
Project Name	Advancing nutrition science through geminiai
Maximum Marks	4 Marks

Data Flow Diagrams:

In Advancing Nutrition Science through Gemini AI, a Data Flow Diagram (DFD) shows how user inputs like food details and dietary preferences enter the system, how the data is processed using Gemini AI, and how personalized meal plans and nutritional insights are generated. It also illustrates how user information is stored and managed within the application



Example:

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register by entering my name, email, password, age, weight, and dietary preferences.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I receive a confirmation email after Registration.	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register/login using Google account.	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can log in using email and password.	I can access my personalized nutrition dashboard securely.	Medium	Sprint-1
	Login	USN-5	As a user, I can view my personalized meal plan on the dashboard.	Weekly meal plan is displayed based on my profile.	High	Sprint-1
	Dashboard	USN-6	As a user, I can input a food item and receive macronutrient and micronutrient details.	The system displays calories, protein, carbs, fats, vitamins, and minerals.	High	Sprint-2
Customer (Web user)	Meal Planning	USN-7	As a user, I can generate a personalized weekly meal plan	The AI generates balanced meals based on my health conditions and preferences.	High	Sprint-2
	Virtual Coaching	USN-8	As a user, I can chat with the AI nutrition coach for guidance	Gemini AI provides accurate and relevant dietary advice.	Medium	Sprint-3
	Progress Tracking	USN-9	As a user, I can track my calorie intake and nutrition progress	Daily and weekly nutrition reports are generated.	Medium	Sprint-2
Administrator	User Management	USN-10	As an admin, I can manage user accounts and monitor system usage.	System updates reflect accurately without affecting users.	Medium	Sprint-2

Administrator	System Maintenance	USN-11	As an admin, I can update nutrition data and manage AI prompts.	System updates reflect accurately without affecting users.	Medium	Sprint-3
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