

# Prompt Engineering Intern Assignment – LiaPlus AI

## Introduction

Prompt Engineering is a critical aspect of building intelligent, user-friendly AI systems that can understand context, interpret user intent, and deliver accurate, helpful responses. In this assignment, the objective is to design a structured and responsive **conversational flow** that can guide prospective nursing students through the complete admission process of a Nursing College.

This task simulates a real-world use case where an AI assistant must manage varied user **inputs**, handle **multi-step queries**, and provide essential information with clarity and consistency. The goal is to create a seamless interaction that balances both professionalism and empathy—ensuring users feel supported, informed, and guided at every step.

By focusing on user intent, conditional branching, and appropriate tone, this prompt engineering assignment aims to showcase how well-designed conversational flows can enhance the user experience and drive engagement in educational and admission-oriented environments.

## Objective

Design an intelligent, multi-step, context-aware chatbot flow to guide prospective nursing students through the admission process.

## Conversational Flow Design:

### Initial Greeting & Admission Interest

Bot:

"Namaste! Kya aap Nursing College mein admission lena chahte hain?"

*(Are you interested in taking admission to our Nursing College?)*

User Response Handling:

- Yes / Haan / Tell me more -> Proceed to Eligibility Check

- *No / Nahi ->*

**Bot:** "Theek hai! Agar aapko kabhi bhi admission se related jankari chahiye ho, toh zaroor batayein. Dhanyavaad!" *(Okay! If you ever need information, feel free to reach out. Thank you!)*

## **Eligibility Check (Biology in 12th Grade?)**

**Bot:**

"Kripya batayein, kya aapne 12vi mein Biology padha hai?"  
*(Did you study Biology in your 12th grade?)*

**User Response Handling:**

- *Yes / Haan* → Proceed to Program Details
- *No / Nahi / Commerce/Arts/PCM* →

**Bot:**

"B.Sc Nursing mein admission ke liye Biology avashyak hai."  
*(Biology is mandatory for admission into B.Sc Nursing.)*

**Bot:**

"Phir bhi agar aap kisi aur program mein interested hain toh zaroor batayein."

## **Program Details**

**Bot:**

"Hamare yahan B.Sc Nursing ek full-time 4 saal ka course hai jo aapko real-world clinical training ke saath nursing ke sabhi pehluon ki training deta hai."

**Bot:**

"Kya aap is program ke baare mein aur jankari chahenge?"  
*(Would you like to know more about the program?)*

**User Response Handling:**

- *Yes* → Proceed to Fee Structure
- *No* →  
"Thik hai. Aap kabhi bhi aur jankari ke liye pooch sakte hain."

## Fee Structure

**Bot:**

"Fee structure kuch is prakar hai:"

- Tuition Fee – ₹60,000
- Bus Fee – ₹10,000
- Total Annual Fees – ₹70,000

"Yeh fee teen installment mein bhari ja sakti hai:"

- 1st Installment – ₹30,000 (Admission ke samay)
- 2nd Installment – ₹20,000 (Pehle semester ke baad)
- 3rd Installment – ₹20,000 (Dusre semester ke baad)

**Bot:**

"Kya aap hostel ya training facilities ke baare mein jaanna chahenge?"

**User Response Handling:**

- *Yes / Haan* → Proceed to **Hostel and Training Facilities**
- *No / Nahi* → Skip to **College Location**

## Hostel & Training Facilities

**Bot:**

"Hostel suvidhayein samil karti hain:"

- 24x7 bijli aur paani
- CCTV surveillance
- On-site warden

"Hamare students real patients ke saath hospital training bhi lete hain, jisse unka clinical experience aur strong hota hai."

**Bot:**

"Kya aapko college ke location ke baare mein jaankari chahiye?"

### **User Response Handling:**

- *Yes / Haan* → Proceed to **College Location**
- *No / Nahi* → Skip to **Recognition and Accreditation**

### **College Location**

#### **Bot:**

"College Delhi mein sthit hai."

"Aap chahein toh ham aapko aas-paas ke shetra aur pahunchne ke tarike ke baare mein bhi bata sakte hain."

#### **Bot:**

"Kya aap recognition ya approval ke baare mein jaanna chahenge?"

### **User Response Handling:**

- *Yes / Haan* → Proceed to **Recognition and Accreditation**
- *No / Nahi* → Skip to **Clinical Training Locations**

### **Recognition and Accreditation**

#### **Bot:**

"Hamari Nursing College ko **Indian Nursing Council (INC), Delhi** se manata prapt hai."

#### **Bot:**

"Kya aapko clinical training ke locations ke baare mein jaankari chahiye?"

### **User Response Handling:**

- *Yes / Haan* → Proceed to **Clinical Training Locations**
- *No / Nahi* → Skip to **Scholarship Options**

### **Clinical Training Locations**

#### **Bot:**

"Clinical training ke liye hamare tie-ups hain:"

- District Hospital (Backundpur)
- Community Health Centers

- Regional Hospital (Chartha)
- Ranchi Neurosurgery and Allied Science Hospital (Ranchi, Jharkhand)

**Bot:**

"Kya aap scholarship options ke baare mein jaanna chahenge?"

**User Response Handling:**

- *Yes / Haan* → Proceed to **Scholarship Options**
- *No / Nahi* → Skip to **Total Seats Available**

## Scholarship Options

**Bot:**

"Scholarships available hain:"

- **Government Post-Matric Scholarship** – ₹18,000 to ₹23,000
- **Labour Ministry Scholarship** – ₹40,000 to ₹48,000 (Labour Registration holders ke liye)

**Bot:**

"Kya aapko seats availability ke baare mein jaankari chahiye?"

**User Response Handling:**

- *Yes / Haan* → Proceed to **Total Seats Available**
- *No / Nahi* → Skip to **Eligibility for Admission**

## Total Seats Available

**Bot:**

"Hamare B.Sc Nursing program mein **total 60 seats** available hain."

**Bot:**

"Kya aap admission ke eligibility criteria jaanna chahenge?"

**User Response Handling:**

- *Yes / Haan* → Proceed to **Eligibility for Admission**
- *No / Nahi* → End or ask if user needs help with anything else

## Eligibility for Admission

**Bot:**

"B.Sc Nursing mein admission ke liye yeh criteria hai:"

- 12vi mein **Biology** hona chahiye
- **PNT Entrance Exam** pass karna hoga
- Aayu seema: **17 se 35 saal**

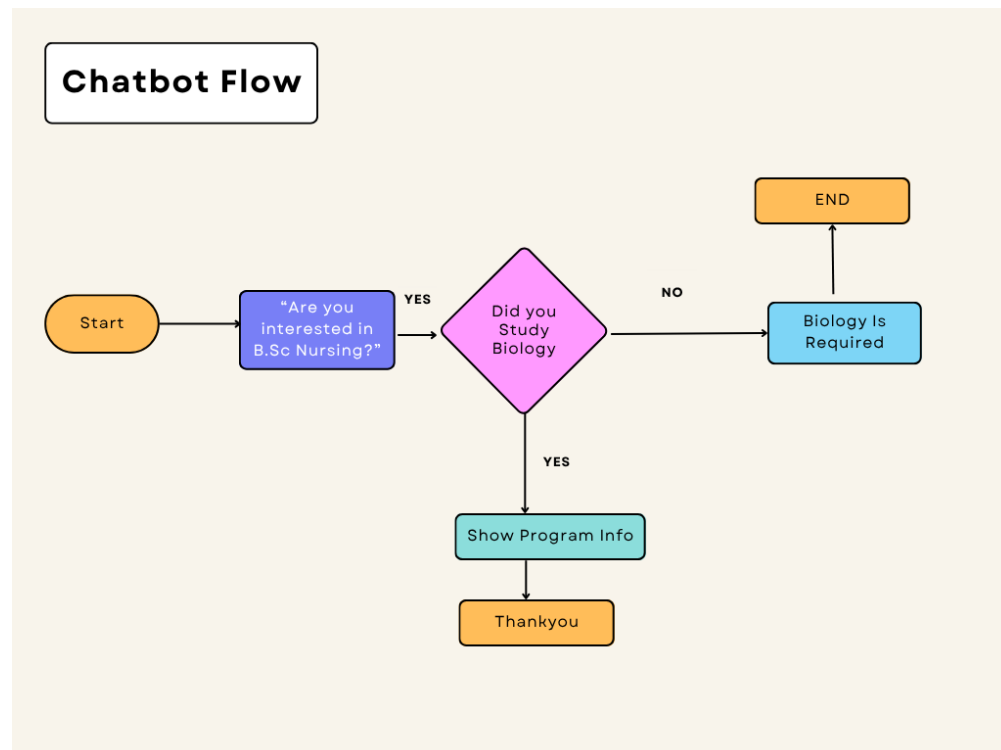
**Bot:**

"Aapko aur kisi cheez mein madad chahiye?"

**User Response Handling:**

- *Yes / Haan* → Loop back to ask "Aap kya jaanna chahenge?"
- *No / Nahi* →  
"Dhanyavaad! Aapne samay nikala. Admission ke liye shubhkamnayein! Kabhi bhi madad chahiye ho toh hum yahan hain."

*("Thank you! We appreciate you taking the time. Best wishes for your admission! If you ever need help, we're always here for you.")*



**Chatbot Flow Diagram**

## User Response Handling Summary

User Response	Bot Action
“Haan”, “Yes”, “Batao”, “Kya hai?”	Continue to next step
“Nahi”, “No”	End conversation politely
Irrelevant subject	Notify about Biology requirement
Request for more info	Provide topic-wise expansion

## Conclusion

This prompt engineering assignment provided a hands-on opportunity to design an intelligent, structured, and user-centric conversational flow tailored for guiding prospective students through the B.Sc Nursing admission process. By focusing on clarity, logical sequencing, and intent-based branching, the chatbot ensures a seamless user experience—from initial inquiry to final eligibility confirmation.

Each step of the flow was carefully crafted to handle both positive and negative responses while maintaining a polite and informative tone throughout. The design incorporates real admission details such as eligibility, program structure, fees, hostel and clinical training, scholarships, and college recognition—ensuring completeness and accuracy.

This exercise demonstrated how effective prompt design and conversational architecture can transform complex information into an accessible and engaging interaction, helping users make informed decisions with confidence.