

Day 2 : Task 2

Build Your Own RAG Chatbot

Objective 1 : IPSR Courses Recommender Chatbot

The screenshot displays the LangChain Studio interface for the 'IPSR Courses Assistant' project. The top bar shows '10 days left in your n8n trial' and '0/1000 Executions'. The main workspace shows a workflow diagram with the following components and connections:

- When chat message received** (Trigger) connects to **AI Agent** (1 item).
- AI Agent** connects to **Groq Chat Model** (3 items).
- Groq Chat Model** connects to **Simple Memory** (2 items).
- Simple Memory** connects to **Pinecone Vector Store** (2 items).
- Pinecone Vector Store** connects to **Groq Chat Model** (2 items).
- Groq Chat Model** connects to **Answer questions with a vector store** (2 items).
- Answer questions with a vector store** connects to **Groq Chat Model** (2 items).
- Groq Chat Model** connects to **Embeddings Google Gemini** (2 items).
- Embeddings Google Gemini** connects to **Pinecone Vector Store** (2 items).

The chat interface on the left shows the following conversation:

Chat: Session: d2cf9...
Hello!
Hello! How can I assist you today?
Mention the Python courses that IPSR offer if any?
IPSR offers the following Python courses:
1. Python Programming
Description: Training on Python Programming.
Link: Python Programming
2. Python for Interdisciplinary Research
Description: A course designed for interdisciplinary research, offered in Kochi, Calicut, Kottayam, and Kerala.
Link: Python for Interdisciplinary Research
3. AI Tool Development Using Python/Django
Description: Focuses on building AI tools with Python

The right panel shows the 'AI Agent' logs and output. The output is as follows:

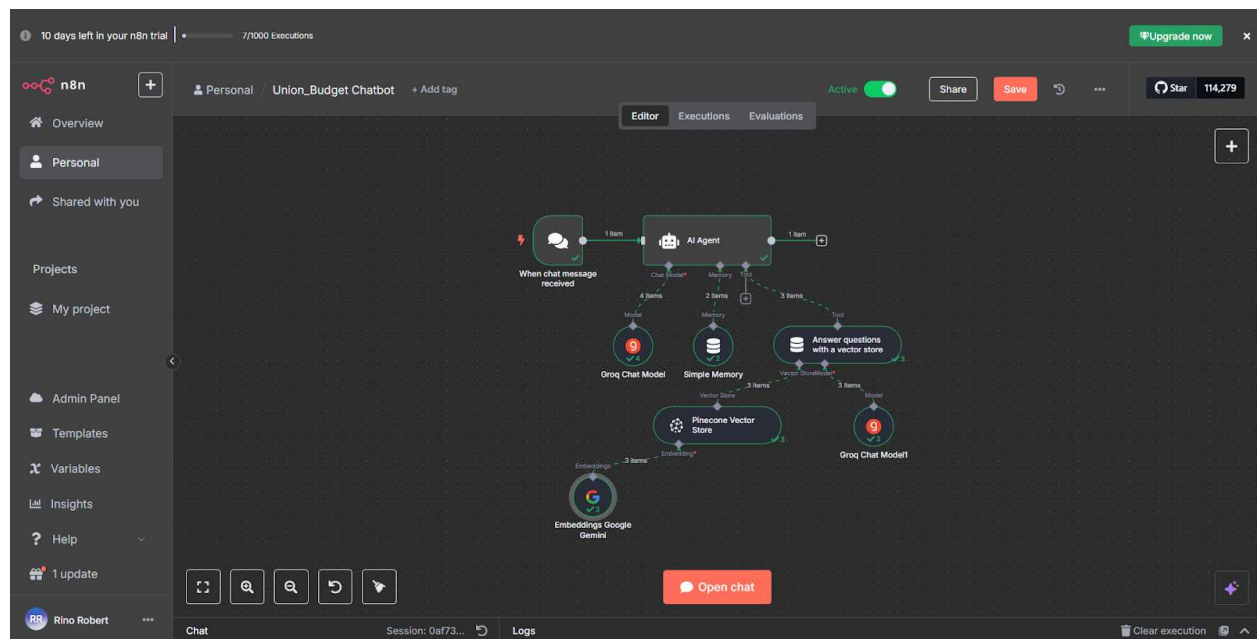
```
output
\n\nIPSR offers the following Python courses:\n\n1. **Python Programming** \n - Description: Training on Python Programming. \n - Link: [Python Programming](https://www.ipser.org/course/pythonprogramming)\n\n2. **Python for Interdisciplinary Research** \n - Description: A course designed for interdisciplinary research, offered in Kochi, Calicut, Kottayam, and Kerala. \n - Link: [Python for Interdisciplinary Research](https://www.ipser.org/course/python-for-interdisciplinary-research)\n\n3. **AI Tool Development Using Python/Django** \n - Description: Focuses on building AI tools with Python and Django, covering AI development, web frameworks, and deployment. \n - Link: [AI Tool Development Using Python/Django](https://www.ipser.org/course/ai-tool-development-using-pythondjango)\n\n4. **Python Professional** \n - Description: A top-rated training institute in Kerala offering Python certification to help launch a tech career. Available in Calicut, Kochi, and Kottayam. \n - Link: [Python Professional](https://www.ipser.org/course/best-python-training-institute-in-kerala)
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System Message : You are an intelligent course assistant for IPSR. Your role is to guide users with accurate, concise, and relevant information about IPSR's courses. Use only the retrieved context from the vector store to answer queries related to course names, durations, locations, learning outcomes, and certifications. Avoid assumptions and keep responses student-friendly and informative.

Published Chatbot Link :

<https://ipsr-internship-r.app.n8n.cloud/webhook/406513da-d383-452b-8eb8-393779caf494/chat>

Objective 2: Union Budget Query Chatbot



System Message: You are a financial assistant specialized in the Union Budget 2025–26. Use only the retrieved context from official budget documents to answer questions. Provide clear, factual, and concise responses about expenditure, allocations, economic policies, fiscal indicators, and sectoral highlights. Avoid speculation or assumptions, and respond in a helpful and informative tone.

Published Chatbot Link:

<https://ipsr-internship-r.app.n8n.cloud/webhook/0f6d58af-fbbc-4ccf-94ff-64fd6d2906a7/chat>