

KnowFlow Chatbot

Welcome to KnowFlow your intelligent, role-aware AI assistant designed to simplify knowledge transfer in organizations using GPT-4, LangChain, and hybrid search technologies.

Prerequisites

- Python 3.10+
- An OpenAI API Key
- pip installed

Installation Guide

1. Set up a virtual environment

```
python -m venv env
```

```
# Activate it
```

Windows:

env\Scripts\activate

macOS/Linux:

```
source env/bin/activate
```

2. Install dependencies

```
pip install -r requirements.txt
```

3. Add your OpenAI key

Create a .env file with:

OPENAI_API_KEY=sk-xxx

4. How to Run the Chatbot

```
streamlit run ui/app.py
```

The chatbot will launch in your browser: <http://localhost:8501>

Key Features

- Role & Level-aware chat responses
- Hybrid Search (BM25 + FAISS)
- LangChain Tool Agent to choose best retriever
- Personalized tone for juniors, mids, seniors
- Feedback capture + export to Excel
- Clean 2D UI with modern corporate feel

Want to Improve It?

- Add LangGraph agent support
- Add voice input
- Store vector DB persistently
- Connect to live HR/document APIs